# WBusiness Man's Encyclopedia

Volume II



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# THE BUSINESS MAN'S ENCYCLOPEDIA

A Hip-Pocket Business Counsellor—A Pigeon-Hole Legal
Adviser—An Office Hard-Nut Cracker—A Commercial
Britannica—A Business Man's Guide Book,
Combined Into Two Volumes—As full
of facts and useful information as
a plum pudding is of plums

#### COMPILED BY 27 EXPERTS

Who have worried about as you have worried about—worked over as you have worked over—solved as you want to solve—the vexatious business questions and legal points these two little volumes so readily answer

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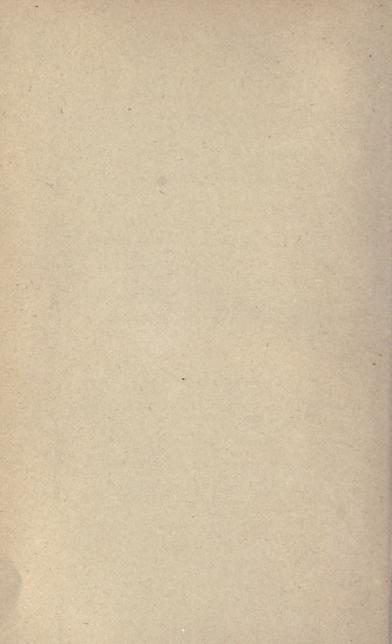
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## The Business Man's Encyclopedia

#### BOOK III

#### BUSINESS DICTIONARY

All of the common terms used in business and commerce are defined elsewhere in these volumes and may be easily referred to by consulting the index. All necessary terms not so defined are here listed for consultation. A number of words defined here are more fully treated elsewhere, for which treatment the user is referred to the index.

#### A

A1. First class; without a superior.

abatement. In contracts, a creditor's reduction of claim.
"A" bond. One of the first of a series of bonds designated alphabetically.

absolute indorsement. An indorsement binding the indorser to pay when notified that the prior parties have failed to do so.

absorbed. Subscribed for; -applied to bonds, etc.

account. 1. The record of any business transaction.
2. On the stock exchange, the extent of speculative positions open.

accrued dividend. The increment accumulating at any time before a regular dividend payment.

acquittance. An acknowledgment of the payment of a debt.

actual assets. Money; property of certain value.

adjustment bond. A bond issued to secure money, as for improvements.

adjustment mortgage. 1. A mortgage usually covering improvements. 2. A second mortgage.

afloat. Designating grain on passage.

allocation. Apportionment; allotment; assignment.

allotment. 1. Share or portion. 2. In underwriting, the amount assigned a member or subscriber.

all-'round price. Overhead price.

arbitrage. Purchase and sale of the same thing in different markets.

arrha. Earnest money. [Latin.]

assessment. A demand upon stockholders for a specified sum per share of stock.

assets. Total worth of property; -as of a person.

aval. Guaranty; indorsement.

average book. In banking, a book recording the average credit balances of depositors.

B

backing. Indorsement.

balance sheet. A tabular statement showing assets and liabilities, profit and loss.

ballooning. Inflating a stock value. [Colloquial.]

bear. A speculator believing in lower prices; one who sells stock short to buy back at a lower price.

bearing the market. Working to force prices down.

bid and asked quotations. Quotations furnished by stock specialists, the nominal prices of the day on the stock exchange.

blanket mortgage. A general mortgage.

blind pool. A money pool to be used at the manager's discretion.

block. A large number of shares.

board of trade. 1. An organization formed to promote mercantile or commercial interests. 2. An exchange or trading organization the members of which conduct large speculative operations.

bond. A secured certificate of obligation to pay money. bonded. Secured by some guaranty.

bonus. A premium or gratuity.

books close. That time, prior to a dividend payment, at which ownership of securities may not be changed in the record;—opposed to books open.

books open. The opposite of books close.

book value. Stock value based on earnings.

- branch bank. A bank under the control and supervision of a larger bank;—not permitted under the national bank act.
- bucket shop. A place where bets are placed on regular exchange quotations.
- bucketing of stocks. Sales by a broker—for his own account and risk—against customers' purchases, or purchases by the broker against customers' sales.
- budget. An estimate of probable revenues and expenditures by the government in the ensuing year with affecting measures. [English.]
- bull. A speculator believing in higher prices; one buying in expectation of a raise.
- bulling the market. Working to make prices higher.
- buyer four, ten, twenty, etc. Bought for delivery on any day demanded by the buyer within the number of days specified (4-10-20-etc.) on one day's notice to the seller.
- buying back. Purchasing a stock previously sold without ownership.
- by-bidder. A side bidder at an auction to raise prices.by-laws. Rules, subordinate to a constitution or charter, adopted by an association or corporation for the conduct of its affairs.

#### C

- call. A contract binding the issuer to deliver on demand to the holder agreed stock within a certain time at a certain price.
- called bond. A bond issued with the privilege of redemption after a certain time, interest to cease on such call.
- call loan. A loan payable on demand.
- capital. Available wealth or money.
- Captain of Industry. A leader in the creation and development of important industries in the United States.
- cash assets. Assets in money or readily convertible into money.
- cats and dogs. Worthless securities. [Colloquial.]
- charges forward. Designating charges to be paid by the receiver of the property.

Chicago check. A form of check having the dollar mark to be followed by the amount in figures, at the end of the line for the payee's name.

c. i. f. Cost, insurance, and freight included.

circular letter of credit. See traveler's letter of credit. circulation. 1. Money in use. 2. Notes issued by national banks.

classified bonds. Bonds disposed in two or more classes, as designating the payment of interest or maturity.

classified stock. Stock disposed in two or more classes, as first, second, and third preferred.

close corporation. A company the stock of which is held by a few persons and is not on the market.

closed for dividend. Not open pending a dividend payment;—said of stock.

closing prices. On the stock exchange, the prices at which the last sales are made.

coining rate or value. The valuation as compared with gold at which silver is coined as opposed to its actual bullion value.

collateral loan. A loan on paper secured by a pledged security.

collection charge. A charge for collecting out-of-town paper.

commitment. The act of giving an order to buy or sell. community of interest. Joint ownership or control for the maintenance of harmonious relations.

commutation, commuting. See compounding.

compensatory damages. An amount adjudged equivalent to a sustained loss.

composition. A partial payment of creditors accepted by them as a full payment.

compounding. The payment of several successive obligations by substituting a lump sum.

concessionaire. One who obtains a grant.

consignee. The one to whom goods are sent.

consignment. Goods shipped or forwarded by one person to another.

consol. A consolidated stock or bond, an abbreviation of consolidated annuities.

- consolidated bond. One of an issue of bonds taking up and replacing two or more previous issues.
- consolidated mortgage. A mortgage replacing two or more mortgages previously made.
- constant. In finance, a fixed value.
- construction account. The account showing the amount of building and equipment investment, as of a railroad.
- continued bond. A bond which may be held after maturity, then bearing the same or a different rate of interest.
- contribution. An indemnifying payment made to one of a number of parties jointly responsible for a debt by those not participating in the payment.
- controlling company. One owning control though not operating another company.
- cooked. Garbled or manipulated; -said of an account or report.
- corner. The condition of the market with respect to a commodity which has been bought up with a view to monopoly.
- coupon. The detachable form showing the amount of interest due at a certain date, being negotiable the same as a check.
- coupon bond. An unregistered bond payable to bearer.
- crossed check. A check bearing on its face, certain words making it payable only at a bank;—used only in England.
- cumulative stock. Preferred stock bearing a dividend, which if not paid regularly, accumulates, and must be paid before a dividend on common stock.
- current assets. Such assets as change from day to day. current liabilities. Liabilities changeable daily.
- cutthroat mortgage. A mortgage so drawn as to cut off the mortgagor's right of summons or notice and recourse,—not sustainable in equity.

D

dating. Extension of credit beyond the ostensible term by placing the date ahead.

dead assets. Unproductive assets.

- debenture. A certificate of debt; unless secured, a promissory note.
- deciaration of trust. Acknowledgment by a person holding a title to property that the virtual ownership vests in another.
- deferred bond. A bond the interest of which is put off for a certain period.
- demurrage. A charge for holding cars or vessels beyond a specified time.
- differential rate. In transportation, a lower rate to the same or competing points.
- direct liabilities. Determined, undisputable obligations. discussion. A proceeding in which a surety exhausts his principal's property before becoming liable him-
- dividend. A profit paid to a holder of a stock.
- dividend off. Not carrying a declared dividend with the sale;—said of a stock.
- dividend on. Including dividend due.
- divisional bond. A bond under a mortgage on property in one railroad division.
- domestic exchange. Drafts drawn at one place and payable at another place in the same country.
- demiciled. Payable at (a certain place).
- double-name paper. Paper bearing an indorsement.
- drawback. A rebate.
- drawn bond. One of a number of bonds determined for payment by lot.

#### E

- equipment bond. One of a series of bonds given for money to equip a railroad with rolling stock.
- equity. The difference between the value of encumbered property and the incumbrance standing against it.
- exchange. 1. The payment of an obligation in one place by the transfer of credit from another place. 2. A draft. 3. A place where purchases and sales are made.
- ex-coupon. Having the coupon for the current interest payment detached;—said of a bond.

- ex-dividend. Not including dividend;—said of a stock sold on or after the day the transfer books of a corporation close.
- ex-drawing. Not including any advantage accruing to the buyer if drawn for redemption. [English.]
- ex-interest. Not including interest.
- ex-rights. Carrying with sale no rights recently granted holders;—said of a stock.
- ex-ship. Free of charges up to the time of discharge from the vessel.
- ex-store. Subject to all charges after leaving storage.
  extended bond. A bond upon which extension of time has been granted.
- extension bond. A mortgage bond covering a railroad extension.

F

- fiat money. Money by decree of the government.
- finance committee. A board directing monetary affairs, financial statement. A balance sheet.
- first mortgage. A mortgage that must be satisfied before all others.
- fiscal year. The twelve months considered a year in financial operations, that of the United States government ending on June 30.
- fixed capital. Property in its final form and capable of continued use in production, as machinery.
- fixed charge. A certain charge becoming due at stated intervals.
- fixed debt. A debt of some permanence, as a debt represented by bonds.
- floating. Marketing; selling;—said of bonds or stock. floating capital. Property in a changing form, as that invested in articles being manufactured.
- floating debt. Indebtedness not represented by securities.
- floating stock. Stock not held permanently.
- forced loan. A loan made to conform to the requirements in hand, as that of a bank which has paid an overdraft afterwards not covered.
- foreign exchange. Drafts drawn in one country payable in another; the system so used.

founders' shares. Shares formerly issued to the promoters of a company.

free coinage. Coinage of money without charge or deposit of metal, extended in the United States only to gold.

free overside. Same as ex-ship.

freight. 1. Anything transported by a carrying company. 2. Charges for transportation of the heavier class of goods.

full-stock. Stock at the face value of \$100.

funded debt. Outstanding debts converted into bonds or annuities.

#### G

general mortgage. A blanket mortgage.

gold bond. A bond payable only in gold, principal and interest.

gold point. That period in the buying and selling of foreign exchange when it permits the importation or exportation of gold.

gold reserve. The fund in gold, \$150,000,000, set aside in the United States treasury for the redemption of greenbacks.

government depository. A national bank designated to receive government deposits.

gross earnings. Total earnings.

guaranteed bond. A bond issued by one company and having the principal and interest guaranteed by another.

guaranteed stock. A stock issued by one company and guaranteed by another.

#### н

half-stock. Stock the par value of which is \$50.
holding company. Same as securities company.
hypothecation. The pledging of any property, as securities, as collateral for loans.

#### ı

in bond. Held under bond or in trust.

indorsed bond. A bond bearing an indorsement not properly pertaining to it. According to New York stock exchange rules such a bond must be designated "indorsed," when offered for sale.

industrial stock. Stock of a manufacturing company.

initialed check. A check bearing the initials of a cashier or paying teller, signifying that the signature is correct.

interim dividend. Division of profit before the final yearly dividend is declared.

international stock. A stock dealt in in foreign exchanges.

investment securities. Stocks, bonds, or the like, considered as safe and desirable as regards dividends.

iron-clad note. A collateral note.

irredeemable bond. A bond which can not be paid off, now rarely issued.

irredeemable currency. Fiat money.

issue. 1. In law, the first delivery of a negotiable instrument in complete form to the holder. 2. In finance, the outstanding stock or bonds of a company.

J

joint bond. A bond on which two or more parties are bound, as in certain railroad issues.

Joint mortgage. A mortgage issued jointly by two or more parties.

joint-stock company. A company having its capital stock divided into shares of equal amount.

judgment note. A promissory note bearing a warrant of attorney authorizing the entry of a judgment without process against the maker in case of nonpayment.

junk. Cats and dogs. [Colloquial.]

#### K

kiting. The incurring of a fresh obligation to discharge an old one, as by exchanging checks with a confederate.

knocked down. Sold at the price bid, said of goods auctioned.

L

land grant bond. A bond issued under a land grant mortgage.

land grant mortgage. A mortgage on a grant of land, for the issuance of bonds.

- leased line. A railroad held by another subject to a lease.
- limited liability. Responsibility of stockholders for company debts only to the amount of stock held; indicated by the word "Limited" in the title.
- liquid assets. Assets in cash or readily convertible into cash.
- listed stocks. Stocks included in the list of those admitted to dealings at an exchange.
- long and short haul clause. A clause in the interstate commerce law prohibiting a greater comparative charge for freight transportation for a short distance, than for a long distance under similar conditions.

#### M

marked check. A check bearing a private mark without which it is not valid.

merger. A trust.

- mileage. 1. The number of miles in a railroad. 2. Distance traveled. 3. Transportation issued in continuous slips to be lifted by the conductor as used.
- mortgage. A lien upon property to secure a debt, becoming void upon the payment of the obligation.
- municipal bond. A bond issued by a borough, town or city having a self-governing charter of incorporation.

#### N

- negotiable instrument. Any paper that may be transferred by assignment, indorsement or delivery.
- net. 1. Clear of all expense, as earnings. 2. Not subject to any deduction, as a price.
- net cash. Immediate payment; payment on delivery of the goods.
- nominal assets. All assets, particularly those of doubtful value.
- non-assented stock or bonds. Stock or bonds held by parties refusing to deposit their securities on a readjustment of the affairs of a corporation.
- non-assessable stock. Stock not to be assessed.

non-cumulative stock. Stock on which no passed dividend has to be made good;—opposed to cumulative stock.

no protest. Not to be protested if not paid.

nude contract. A contract without a consideration.

#### C

obligatory bond. Any bond having the interest at a fixed rate payable at designated intervals.

operating company. The company carrying on a road, the ownership of which vests elsewhere.

option. The purchased privilege of either delivering a specified amount of something at a specified price within a specified time, or calling for and receiving such delivery.

optional bond. A bond that may be retired by the issuer at a designated earlier date.

overcapitalization. Capitalization for an amount not warranted by the profits.

overcertification. The certification of a check by an officer of a bank, the drawer not having sufficient funds to cover it.

overdraft. A check drawn on a bank not having sufficient funds to the credit of the drawer.

overhead price. A price covering cost and all charges. overissue. Issue of stock beyond that authorized.

overlying mortgage. A mortgage subsequent in claim to another mortgage.

#### P

paid-up stock. Stock paid for in full.

paper profits. Probable profits from transactions not closed.

par. Face value.

parent company. A company from which other companies derive authority.

parity. A price (of a stock) equivalent or equal to the price of the same stock quoted on a different basis.

par list. A list issued by a bank to correspondents or customers, giving a list of cities and towns the checks of which will not be charged exchange.

participating bond. A bond sharing in a distribution of profits as well as a guaranteed interest.

passing a dividend. Failure to make a regular dividend.

passive bond. A non-interest bearing bond having some other benefit attached.

plain bond. A bond having no mortgage or collateral security and without a sinking fund provision.

plant. The permanent appliances necessary to conduct any business.

pool. Interests joined for mutual advantage, specifically, (a) a trust or combination to regulate prices; (b) a fund contributed by several persons for a

specified use.

postdated. Bearing a future date.

preferred stock. Stock which must receive a dividend and participate in a distribution of assets before common stock.

premium. 1. The amount of excess over the par value.

2. The sum paid by a policy-holder for insurance.

private company. A close corporation. [English.]
promoter's stock. Stock issued one interested in the
promotion of a company, for services rendered.

proprietary company. A controlling company. protest waived. Without necessity of protest (to in-

dorser).

proxy. A person authorized to represent another; also, the instrument granting such authority.

put. A contract by which one person, in consideration of money paid to another, acquires the privilege of selling or delivering to the latter within a certain time some designated article at a stipulated price.

#### 0

quarter-stock. Stock at the par value of \$25. quick assets. Property quickly convertible into cash. quid. One pound sterling. [English.]

quotation. Price. On the stock exchange quotations for stock are in eighths of one per cent, while quotations for grain, pork, lard, short ribs, and silver are in eighths of a cent. Cotton and coffee quotations are in hundredths of a cent.

R

- redeemable bond. A bond payable at a specified future time.
- redemption drawing. The determination by lot of those bonds to be redeemed and paid.
- registered bond. A bond recorded in the owner's name.
  registered coupon bond. A bond bearing coupons payable to bearer, but itself payable only to owner.
- registered stock. Stock recorded in the company books and transferable only by surrender of the stock-certificate, not by indorsement. [English.]
- registrar. The keeper of the records of transfers of securities, verifying the signatures of registered owners.
- rehypothecation. The hypothecation by a broker of securities hypothecated to him. Such act is illegal without the consent of the owner of the collateral.
- released indorsed bond. A bond bearing an acknowledgment of relinquishment of title, taken before a notary public.
- reorganization. Compulsory financial reconstruction.
- resources. The collective amount of cash and property equivalent to cash.
- restrictive indorsement. An indorsement so worded as to qualify further negotiability.
- right. 1. The privilege to subscribe (a certain amount) to an issue of a security. 2. In underwriting, an allotment or accepted subscription.

#### S

- scrip. 1. A certificate for a fraction of a share of stock, usually exchangeable for shares when presented in sufficient quantities. 2. United States paper currency of less than \$1 denomination,—not now issued.
- seasoned securities. Stocks or bonds having an established value.
- securities company. A company owning the securities of other companies and depending for its income upon the income derived from such securities.
- seignorage. The difference between the cost of the bullion in a coin and the value of the coin minted.

seller four, ten, twenty, etc. Sold for delivery on any day desired by the seller within the number of days specified (4-10-20-etc.) on one day's notice to the buyer.

seller's option. A put.

serial bonds. Bonds redeemable in specified installments.

single-name paper. Unindorsed paper.

sinking fund. A fund to which are added certain amounts of money at specified times to close off a debt.

sinking-fund bond. A bond to be paid by a sinking fund.

sinking-fund mortgage. A mortgage to be paid by a sinking fund.

slow assets. Property not to be quickly turned into cash.

sola. A foreign bill of exchange drawn singly.

special aid bond. A bond issued by a government or municipality to facilitate a beneficial enterprise.

special assessment bond. A municipal bond issued payable by a special tax levied upon property improved by the fund originating the bond.

stale check. A check not presented for a considerable time.

sub-company. A subsidiary company.

subsidiary company. A company the stock of which is owned or controlled by another company.

surplus. Profit remaining after deductions are made.

syndicate. A number of capitalists uniting to finance and carry out some plan or scheme.

#### т

tack. The direction in which a speculator's interest lies.

tax bond. A state bond receivable for taxes.

time loan. Money borrowed for a specified period.

ton-miles, ton-mileage. Number of miles total tonnage was hauled by a railroad.

train-miles, train-mileage. Number of miles made by a railroad train or trains.

transfer agent. An officer authorized to transfer a company's stock.

traveler's letter of credit. A draft issued payable in such amounts as desired by various domestic and foreign correspondents.

turn over. The total business transacted by a concern in a given period.

#### U-Z.

underlying mortgage. A prior mortgage.

unfunded debt. A floating debt.

utter. To issue, as forged paper.

via. A bill of foreign exchange, drawn in duplicate or triplicate.

voting trust. The placing of all or part of the stock of a company in a trust for voting purposes.

when issued. Deliverable when, and as if issued—said of a stock.

working capital. Money necessary for operating expenses.

X. Same as ex.

x-d. Ex-dividend.

yield. Percentage of return in dividends.

### ABREVIATIONS AND ARBITRARY SIGNS USED IN BUSINESS

A1..... First class.

Adv. or adv..... Advertisement.

Agt.....Agent.

A. M...... Forenoon; Master of Arts.

Amt. Amount.

App. Appendix.

Asst. Assistant.

Atty. Attorney.

Av. or Ave. Avenue.

Bal. Balance.

B. B..... Bill book.

#### 176 BUSINESS MAN'S ENCYCLOPEDIA.

bbl	. Barrel.
bdl	
Bk	.Bank.
bkts	. Baskets.
B/L	
Bld	
Bot	
B/S	Bill of Sale.
bu	
bx	.Box.
C	. Cent.
Cash	
C. B	
Chgs	
Ck	Check.
Co	
	. Collect on Delivery.
	Collection; collector.
Cr	
cwt	
da	
Dept	
Dft	
Disc	
do	.The same.
doz	
Dr	Debtor; doctor.
Dray	Drayage.
	Errors and omissions excepted.
ea	
e. g	. For example.
Esq	Esquire.
etc. or &c	And so forth.
Ex	Express; example.
Exch	Exchange.
fig	Figure; figures.
F. O. B. or f. o. b.	
Fol	
Frt	
ft	
gal	Gallon.

gro	
hhd	Hogshead.
hund	
I. B	. Invoice book.
i. e	.That is.
In	
Ins	
Inst	. Instant; the present month.
Int	
	.Invoice; Inventory.
J	
Jr. or jr	
kg	
lb. or tb	
L. B	
L/C	
Led	
L. F	
Ltd	
M	
Mdse	
Mem	
Messrs	
Mfg	
min	
Mme	
mo	
	. Mail Order Department.
Mr	
Mrs	
MS	
MSS	
Mtg	
N. A	North America.
N. B	. Take notice.
No. or no	Number.
N. P	
O. K	
Oz. or oz	.Ounce.
p	.Page.
Payt. or payt	. Payment.
pc	.Piece.

#### 178 BUSINESS MAN'S ENCYCLOPEDIA.

pcs	.Pieces.
Pd	Paid.
per cent	.By the hundred.
pk	.Peck.
pkg	,Package.
P. M	Postmaster; afternoon.
P. O	Post Office.
pp	.Pages.
pr	. Pair.
Pres. or Pt	President.
prox	.Proximo; of the next month.
pt	Pint.
P. S	
gr	
qt	. Quart.
Recd	Received.
Reg	
Retd	
Rev	
R. R	
Ry	
S. B	
Sec	
Shipt	Shipment.
sq. ft	
Sr	
St	
Str	
Sunds	
Supt	
Tr	
Treas	
	Ultimo; of the last month.
	United States Mail.
via	
viz	
vol	
Vs. or V	
W/B	
wk	
wt	
Yd. or yd	
rui or yu	, I GI U.

Yr. or yr	Year.
a/c	
@	at or to.
%	Care of.
C	.Cent.
V	Check mark.
\$	Dollar.
#	.Number, when before, pounds, when
	after a figure.
%	Per cent.
11	One and one-fourth.
12	One and one-half (two-fourths).
13	One and three-fourths.

#### BOOK IV

#### **BUSINESS SYSTEMS**

As an aid to office economy and the proper administration of business affairs, the card-index system stands as the greatest improvement over old methods that has been or ever can be introduced. Card systems enable a vast volume of work to be handled by low-priced help that formerly came within the province of high-salaried office workers, leaving the managers of a business free from many annoying problems of detail, and giving them time for other and larger matters.

How Made.—Card systems are made up of record cards printed or ruled for receiving the proper records, arranged between guide cards which have edges projecting above the record cards. On these edges is printed or written the index matter necessary to locate readily any record card or cards desired. The cards stand on edge in drawers of convenient size. A single drawer may be complete in itself, may contain several complete systems, or may be part of a cabinet of any number of drawers desired.

#### ADVANTAGES OF CARD SYSTEMS.

Instant Reference.—The index cards guide one very closely to the card desired and an instant's fingering of three or four cards locates it exactly.

Unlimited Growth.—New cards can be inserted at any place and when the present cabinet is outgrown the cards can easily be transferred to a larger one without disturbing the records or arrangement. Better still, with a sectional cabinet simply add another section. Old material being continually removed makes room for new material.

Adaptability.—A variety of colors and shapes of record cards and colors and sizes of guide cards makes it possible to index and classify according to a variety of subjects.

Removal of Useless Matter.—When the information recorded on any card or cards becomes useless, it may be removed and destroyed or filed in a separate index for future reference.

Re-writing Not Required.—Information recorded on a card need never be re-written, but may be transferred from index to index until it is no longer of use, when it is removed and destroyed.

Cost of Maintaining.—The original outfit is purchased but once. The expense of new cards, purchased as occasion demands, is much less than for books of equal capacity.

Absence of Friction.—A system of units—only the parts necessary are removed for use and interruptions of the user are fewer and loss of time obviated.

Increased Capacities.—The labor is so subdivided that the numerous minor details may be performed by inexpensive help and the results of their labor made available for their superiors.

Encourages System.—Certain and exact places are provided for every record and its entry is not neglected. Adapt it properly to meet the requirements of a business and it will automatically furnish valuable information for the guidance of employes and manager.

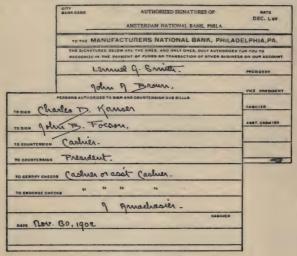
Use of Card Systems.—The uses to which card systems may be put are well-nigh universal. While a system in one line has many features in common with systems in other lines, yet each is distinctive in that it is subservient to demands of the particular business of which it forms a part. The details of various systems as applied to specific divisions of business follow with illustrations of the forms used. In most cases the card system is used entirely, though in some cases minor modifications are introduced.

#### BANKING

An excellent system that is used by several metropolitan banks is described by Charles W. Reihl, the bank expert of Philadelphia. This gives numerous labor-saving uses of cards, particularly as an aid to the paying teller.

The Signature Book Versus the Card System.—The use of the card system for signatures is not new to bankers, although some have not yet done away with the old signature book, that cannot possibly be kept in the way that signatures should be kept. Some books are better than others, but none so good as a proper card system.

Many bankers who have adopted the card system use only two forms, one for banks and the other for firms, corporations and individuals. This will answer

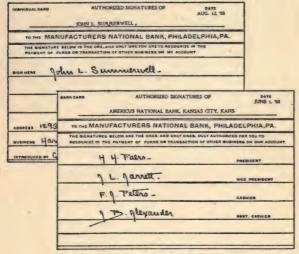


Figures I and II

to a limited extent, but separate cards for each would answer to an unlimited extent.

The system here given was prepared after much study and examination of other systems, and it has been very highly commended by those who are qualified to pass judgment on it. It is especially intended for the paying teller's department, because he, by the nature of his duties, is required to refer to the signatures more than anyone else in the bank.

Figure I is for the signatures of officers of banks in the same city where the bank issuing the cards is located. Figure II shows the back of the same card. The information given on the back may be of more use than that given on the face. The names given on all the cards here illustrated are fictitious, for it would not be right to take cards from the cabinet and use them in this way. The names given are simply to show how the cards look when filled up, and the information they give.

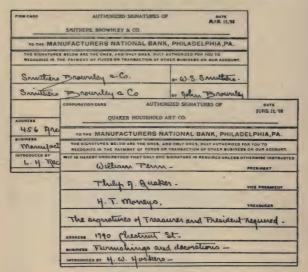


Figures III and IV

The card for out-of-town banks is Figure III. The wording of the two printed lines, beginning, "The signatures below," etc., is a little different from that generally used. It is clearer and more to the point, giving special instructions, which become effective when the signature is placed below.

The individual card is shown in Figure IV. No comment about this is necessary, for it explains itself. But on the firm card (Figure V) the arrangement giving

place for the name of the person who signs for the firm is very useful. The question sometimes arises as to which member of the firm signed a certain check or note. Reference to this card would tell at once.



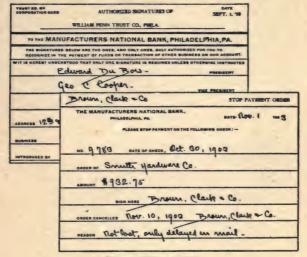
Figures V and VI

The Valuable Points of This System for Banks.—All these cards, except those for banks, give a place for the address, business—that is, the nature of the business—and by whom the party was introduced to the bank. This information is often wanted, and will be found useful in many ways on many days.

Figure VI is the corporation card; on it is a clause stating that, unless otherwise instructed, only one signature is required. Frequently the treasurer's signature is the only one used, but in the case here given the bank is instructed that two signatures are required on each check or note. Without the special instructions the bank would be authorized to pay on any one of the three signatures given.

The same card (Figure VI) is to be used for trust companies, too, as shown in Figure VII. The nature of the business in this case is understood without making note of it.

Although seven forms are here given, there are only four different kinds of cards. The two for banks are the same on the face, but some had the form printed on the back, for use with banks in the same city.



Figures VII and VIII

There is really only one objection to these cards; it is that they are too wide to be enclosed in an ordinary business envelope. They are four by six inches, and require a special envelope when sent through mail. If they were three and a half by six inches, they could be enclosed in an ordinary business envelope, and would not be so liable to be broken or torn in the mail. They could very easily be so printed.

An Important Feature of the Paying Teller's Department.—Another important matter with the paying teller's department is "stop payment" orders. These or-

ders are usually written on a slip of paper or letter form from the party who issued the check or note, and then desired for some reason not to have it paid, and when the item has been returned or the order canceled, the slip is torn up, and that ends the record. Some keep the record by entries, in a book kept for that purpose. But with the card system a card like Figure VIII can be used to great advantage. When the order is given to stop payment, the card is filled out, as here shown, and the card is filed in its place. If the order is canceled for any reason, the two bottom lines are filled up and the card filed back of those still in effect. If the check comes in and is returned, mention of the fact, with date, should be made on the card, and then the card is filed as if the order had been canceled.

OFFICEPOR OF	INTRODUCTION CAR
	TIRCTO MATIONAL BANT N. THICD ST., PHILASSIPHIS, PA
geneutwith:	THE WILL SERVE TO INTRODUCE TO YOU
- Charles L	. Hita.
- Camda	us. New genery-
	ICCRISE MAIN AND SHE WANTED AND WALLOWS BURNE ME KNOW THIS MITT RECORE 30
40001ST SUBSY \$250	DE ALLOYAGLE IN SAFE AND PROPERT SAKUING.
- gare. 1 ,	'03 Geo. L. Mowken -
# 17 TO NOT GOR.	20. OR THE PARTY INTRODUCED TO CALL AT THE BARR SEND THIS BY MAIL AND IT
SHOOME WOMEN'T ATTO	

Figure IX

For these cards a four-drawer cabinet is used. First drawer for A to K cards, second for L to Z cards, third for local and out-of-town banks, fourth for stop-payment orders and to file cards of accounts that have been closed. When an account is closed, the card should be taken from its place, marked "Account Closed," with date and reason, and then filed away in alphabetic order in the fourth drawer. If the bank has more than two ledgers for individual accounts, more drawers can be provided for the cards. To those who think of adopt-

ing the card system for signatures, let me make a suggestion: When you send out the cards, with letter asking for signatures, enclose an introduction card, like Figure IX, and ask them to use it in introducing someone to open an account with the bank. The typographical work might be better than that on this card, but it is the idea that is to be impressed upon you as a good one to use to bring business.

#### MAIL ORDER BUSINESS

A general outline of the mail order business is given on preceding pages, and following is outlined by O. F. Kohl, the handling of one of the most important parts of mail order work—the following up of inquiries.

Growth of Mail Order Trade.—Ten years ago the mail order business was new. It was confined to a few branches of trade; the number of concerns engaged in it was comparatively small, and their profits were large in comparison with the investment. Within the past few years conditions have changed. The number of mail order houses to-day is large; in consequence the profits are smaller. The progress in the business has produced a careful follow-up system for inquiries, which is an ever-present need. It is felt much more to-day than ten years ago, when the writer embarked in the business.

Advertising Necessary to Success.—The advertising expense of a mail order concern is perhaps at the outset its greatest item; in consequence the results which are obtained from that expenditure determine, in a large measure, what degree of success is to be vouch-safed to the manager of a mail order business. It is therefore necessary to make as much of these results as possible. It is absolutely necessary that the inquiries be pursued to the time where they produce a sale, or until those inquiries are found to be the result of mere curiosity. Just at what point this is determined is a mooted question with all mail order people, and may not here be dealt with. It is assumed in this business that every inquiry is the offspring of a desire to buy, and is treated accordingly. Everyone in the

company's employ follows closely the outline of this system and makes it a point to keep a record of every sale, the source from which it is derived and to keep a record of every inquiry in the same way. If a sale results from subsequent correspondence it is credited to its original advertising source.

A record is also kept of the advertising in the various mediums and of the results therefrom. In this way it is known which is the most productive and what advertising copy shows the greatest returns.

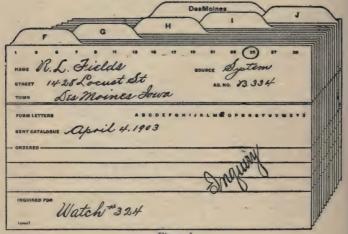


Figure I

Records of sales are kept by means of cards; and as the same system is used as with inquiries, the illustration serves the purpose of explaining both.

Recording and Filing Circularized Names.—Every mail order house has a list of names of people, obtained from advertising and auxiliary sources. These people are reached with circular letters and printed matter every three months, aside from the general advertising. For each person a card similar to the inquiry card (Figure I) is used, except that it contains

only the name and address. These cards are white and the division cards are buff. They are filed in sectional cabinets by states, which are sub-indexed alphabetically for the larger cities.

Whenever an inquiry is received, the white card is taken from the file and also the buff guide for that town and substituted for both cards of a salmon tint. The white card is then stamped across its face "inquiry," that in the future it may not be incorrectly filed if taken out for correspondence reference.

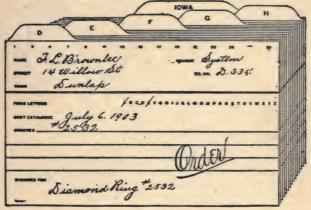


Figure II

The same procedure is followed in regard to the sale, except that the word "order" is stamped on the white card (Figure II). These cards are then transferred to a separate file labeled "Inquires" and "Orders." Thus, when circular matter is again sent out to the general list, those who may have inquired or bought are not reached.

The substitution of the salmon-tinted card with the address on it for the general file is to make the list complete, so that when correspondence comes in and the name is looked up, the clerk who looks after this will know at once whether the card is in the sales or inquiry box.

Use of Cards.—This system of filing separates the cards containing the records of those who have bought or may buy from those from whom no response has been had. To the latter, matter is sent at least every two weeks, and continued until some result is attained, or until satisfied that there is no further use in writing them. They are then transferred to a dead file. To this list are sent only special offers, but for all practical purposes they are on the dead list.

In following up the list in the inquiry and sales box. adjustable tabs are used, or should it be desired to indicate the date of a reply, a ring is placed around it (Figure II). This saves the necessity of removing the cards from their proper places in the file, and the destination acts as a puller for all of the correspondence. It will be noted that only the odd days in the month are used, as for all practical purposes these are sufficient. On the back of the cards is had space for the dates on which letters are written. These cards are then turned over to the stenographer, with the date when a reply is expected, indicated within the ring. The stenographer stamps the date on the letter, which is filed by a girl who has entire charge of this work, and who is held responsible for the errors. is followed in every department and found profitable.

All the correspondence relating to one transaction is filed together, and a separate folder is made for each individual with whom any considerable correspondence is had.

This system saves time and enables the best results to be obtained from letter writing and general advertising. The color system is a valuable adjunct to the card system, and the manner in which this is run enables the keeping of cards in contact at all times, so that there is no difficulty in finding any desired information. If the number of inquiries were not large, the white card would not be removed from the box, but would have "inquiry" stamped upon it.

While this system was originally devised for the mail order business, in the manufacture of watches, jewelry and musical instruments, anyone giving it careful study will see at once that it is adapatable to any mail order business, and those who desire to install it may rest assured that it has had the strong indorsement resulting from long and successful use.

## WORKING UP CITY TRADE

In large jobbing centers the local or city trade is no small item when properly and systematically canvassed by salesmen who call upon their trade weekly, bi-weekly or monthly.

The following method was devised and used very successfully by W. Harry Forse, Jr., to meet the problem of working up a new and permanent local trade in one of the larger western cities. The line of goods was wire, sisal and manila rope, pulleys nad rope fittings. The method used is one which could be adapted to any business having outside local salesmen.

1/c /c		ARONGOL			
How Howman	2 260	46 m	ain &	St	
Stone Ou	arra	UC G3	BA	Eloman!	
" VI 4/4 4/24	0				, Y
/03					-41114
Par mails		1			

Figure I

List of Customers Called On.—The calling list, the first to be compiled, is obtained by taking a copy of the latest city directory and from its classified list selecting those businesses which give promise of using one or more kinds of the goods handled. Each name is written on a 3x5 card (Figure I), of which four colors were used to denote the different geographical sections

of the city. This is to aid the one salesman first started in routing his cards, in order to save time in making calls. Thus, white cards signify North, blue cards South, and so on.

Upon the card is written the prospective customer's name and street address, while spaces are left for insertion of the buyer's name and for dates of calls, quotations and sales.

Planning the Day's Work.—Each morning the salesman picks out and routs in regular order about twenty or thirty cards, laying out his day's work so as to avoid doubling back and forth over a certain territory. These cards the salesman takes in his pocket, and as he makes his calls, he makes notation of details regarding them. In the evening these cards are filed back in the cabinet, with date tab moved to show approximate date of next call. When found desirable to strike a name from the calling list, the card therefor is filed alphabetically in the back part of the cabinet, with the necessary notations.

### CORRESPONDENCE

A simple plan aiding the busy correspondent is given by J. T. Mills.

Arrangement of File.—When arranging a correspondence file, care should be taken that not only must the letters be filed in such a manner as to be easily accessible, but that their contents be recorded so that whatever correspondence has already passed, concerning any subject which may be brought up, may be quickly brought to mind. The following system may be adapted, however, with few alterations, to meet the requirements of any business house.

Use of the Card Record.—A card record is kept of all letters received and written. These cards are filed alphabetically, according to the name of the correspondent. The form of the card shown in the illustration (Figure I) is about three by five inches. At the top is entered the name and address of the correspondent, and a file number is assigned to it. Under "Date" is written the day on which the correspondence is received, and under "Subject" is noted the gist of the

letter. If a letter is sent to any other place than the file proper, its destination is noted under "Disposition." All letters received are entered in black ink, while those sent out are entered in red. The object of this is apparent, as otherwise it would be necessary to have a card double the size of the present one to accommodate the extra columns required.

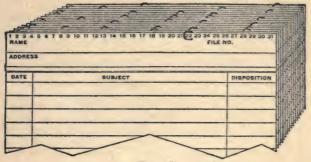


Figure I

Future Attention.—If the correspondence requires attention at a future date a small metal pointer or clip is placed over that particular date. As the pointers for any particular day are all in a row on the top of the file, the cards bearing them are easily withdrawn. Thus a double file is made; the cards themselves are arranged alphabetically and also according to date. This is especially convenient where a "follow-up" system is required.

When the matter which requires attention has been attended to, but requires further correspondence, the pointer is moved along to such date as desired. In this way attention is called to the card, automatically, at the proper time.

Filing of Letters.—The letters themselves are filed in open-topped drawers or boxes. Each correspondent is assigned a file number and his letters are placed in a large manila envelope and the several envelopes are filed numerically.

Advantages.-The advantages claimed for this sys-

tem are: First, when an inquiry or advice is received from a certain party, the correspondent may tell, by consulting his card, just what and when he wrote and what disposition was made of the letter. If it was placed in the regular file, the file number is given to the file boy and the complete correspondence is at hand. Second, all letters which require attention are automatically brought to notice each day by the pointers, which saves the time of looking over the cards each day. Third, a brief history of the previous correspondence is condensed into a small space, thus obviating the necessity of reading through all previous letters before the correspondent can "get his bearings."

### ADVERTISING

The general principles of advertising have already been treated in a preceding article. Following is given by Arthur H. Vandenberg, a description of a method of placing advertising and of recording results which may be used to advantage by the wholesale and retail dealer alike.

Appropriations for Advertising.-Advertising appropriations run the entire gamut of expenditure, from \$50 a year to \$500,000 and more. They are framed by establishments with backing of millions and by the dealer renting deskroom on a side street. They often represent an expenditure in excess of the yearly cost of actual production and are always a dominating figure in the annual budget. The conclusion, then, is inevitable that advertising appropriations and advertising space should be just as diligently studied, just as carefully regulated, just as thoroughly systematized as any other branch of the modern business machine. Because of the comparative infancy of the "buying-by-mail" era in commercialism and because of the surprising indifference which often exists in the expenditure of an advertising appropriation, there is wide opportunity for "leakage" in the advertising department unless system is vigorously applied. The office manager or the advertising man can reduce the details of his task of keeping tab on the advertising appropriation to a

minimum by observing a simple card and loose-leaf reference system.

Form of Reference Book.—There should be a loose-leaf reference book, similar to that illustrated in Figure I and in Figure II. This is a preliminary essential unless complete dependence is to be placed on the figures given out by advertising solicitors and agencies. This is to be a book of ready reference, always up to date. At a glance the buyer of space may tell the circulation of a medium, the advertising rates, the size of page and dates of issue and the character of circulation. Every card tells its own story.

RAME		SOURCE	FILE NO.
BUSINESS	CARREGA		TEL
TO USE			
SENT SENT	FORM LETTERS	WE CALLED C WROTE R	RESPONSE
7-			
			i i

Figure I

Rates and Price Schedule.—In considering rates, the schedule of prices on space is no criterion. One magazine may sell a page for \$10 and another may charge \$1,000. Yet the \$1,000 page may be the more economical because it reaches more people, is read by more prospects than the \$10 page.

Size and Price Schedule.—Again, the size of the page must be considered. A page with ten inches for \$100 is more expensive than a page with twenty inches for \$150, although both have the same approximate cir-

culation. The only common ground for comparison, therefore, is the rate a thousand circulation per inch of space. With all scheduled prices reduced to this basis, an impartial and reliable comparison may be made at a glance. The reference card, therefore, gives, above all else, the rate a thousand circulation an inch of space for every medium under consideration.

The northwest	t-1								
Chicago. Ill.									
STO, C-O-O	PAGE: 6 100								
GO CENTO.	% nm 76"								
15th. mo. before.	16 P. P. — — — — — — — — — — — — — — — — —								
6 × 10 3 AM	20th								
CMARACTER	Circulates in Michigan, Jours, Indiana								
Olio, Illinois and a	Discousin. 60 fercent								
are women.									
Smith, Marshell -	Broton, maso_								
Peabody 73 nos	new york aly.								
Shace next to	o reading matter								
may be secured for	20% naise in								
nates -									

Figure II

Selection of a Medium.—The advertiser may desire to cover some particular field. He may be aided in his choice of mediums by the loose-leaf reference, which suggests at a glance the character of the circulation of a medium and of the firms which have declared it a successful puller.

Results Shown by the Keyed Ad.—After the question of choosing the medium and of placing the contract is disposed of, the advertiser must carefully watch the results of his experiment. His advertisement has been keyed, perhaps by the business address, the department letter, the individual department head, or the

John Smith.	Detroit, Michigan.								
July 9, 1903.	source Adir.								
INQUIRY CAND BENT	Gally 13.								
Desk for about \$20.00									
1029 POR - AMOUNT TERMS days.									
7/19 7/21 10/1	7/18 7/21								
Puquat 1									
ORDER Oct. 3 -	ABAPA								
Nov. 7-									

Figure III

name of the catalog. He may safely check the returns with a card system similar to that suggested in Figures III and IV. In keying results it is again necessary to secure a common basis, and here it is the actual cost of every inquiry and sale. Again, the \$1,000 medium may be more economical than the \$10 one. The advertiser knows what he can afford to allow out of each sale to apply on the general account of publicity. He may tell by a glance at his card system whether a specific magazine is above or below the minimum standard. A single month, however, is not a fair test.

The cards should therefore be arranged to cover sixmonth periods.

The now	thewest.	Afriel ,	902 September-
Suy , y p	age. \$6	0	# 300
INQUIRIES	FEB.	MAR.	APR. 1147 1147 11
MAY LIT LIST LIST MAY LIST MAY LIST LIST MAY LIS	JUNE THE THE II	THE THE THE THE THE THE THE THE	1411 1411 1411
SEPT. WE WE WE WE WIT UP WE WE WE	DCT.	NOV.	DEC.
BALES LIT HT H	भ भा भा भा		no. 18 Watash.
COST PER INQUIRY	1.44.		
COST PER BALE	10.00		

Figure IV

System and Concentration.—Finally there must be system in the campaign itself. An aimless distribution which may include practically every publication is wasted energy. Concentration is a fundamental requirement and is elementary to system and success.

## FILING OF WANT CARDS

A simple method of maintaining a record of quotations and purchases, and facilitating the taking of stock, is given by W. E. Miles.

Want cards save time, maintain a record of quotations and purchases, show the quantity of goods bought and the profit made from them any period, and save time in taking stock.

Individual Card.—There is a card for every article. As shown in Figure I, "Lye, Lewis, case 4-doz., weight 42 lbs.," would head the card for Lewis Lye. Space is

allowed for the jobber's quotations, the date of purchase, quantity bought, price paid, retail price and profits, all on one line.

Perpetual Record of Grades and Prices.—The cards are arranged alphabetically. When an article is out or wanted the card is placed in front of the "Wants" guide card. The buyer runs over his want cards every day, and each card shows him at a glance quotations, what he has paid, how much he has sold, and the profit made. This record may be kept for years. Different brands of an article can be quickly compared for selling and profit-earning qualities.

Lyz	Ly2 - Lews - case 4 doz wt 42 660										
1903 000710											
MOREY	8 E & CO.	B. 9805.	8. 00	DATE	QUARTITY	PAID	95148	PROFIT			
E3)	tge	tqm-	tiz.	And 10	10 Cabes	tqz	dt.	Idz-			
t93	tge.	tig-	tan	Oct 20	10 "	tag	elt.	122-			
t93	tam.	tge	tge.	900.20	10 "	taz	olt.	Ida.			
					30			digg-			
	gan	12			5	tan		0093			
	,				25 cases	.0		dapa			

Figure I

The want cards form a complete catalogue of stock, and in taking stock, save the time of writing out the articles and prices. The date, quantity on hand and extension may be written in red ink, and this stands for the inventory. The profits on each article for the year can be quickly added.

A want card can be made out as quickly as the item can be entered in a want book, and when once written it is good for ten, twenty, or as many orders as the card is made to accommodate.

The want card is the official price maker. If a clerk

is in doubt about the selling price of an article, he finds it quickly on the want card.

Profits.—The greatest value of the want card is the story it tells about profits. The buyer has all the actual facts before him; he knows how every article sells, and how much profit each earns. He quickly learns the brands to push and the brands to throw out, and what to clean up. In fact, the want card places a merchant's business at his fingertips and saves him time over every other system.

		QUOTATIONS	<i></i>				BOUGHT						
M-M-00	E. B. E. OO.	J D B. CO.			DATE	QUANTITY	PAID	RETAILS	PROVI				
+ 1													
-							-						
-							-						

Figure II

Of Service to Both Buyer and Manufacturer.—While this system is a good thing for the buyer, it will be a better thing for the manufacturer. Suppose that instead of catalogues and trade journal advertising a manufacturer should send out to a list of retailers, selected from the books of mercantile agencies, these cards, a card for each item. The retailer would at once incorporate the cards in his system, and the complete data concerning his product are constantly under the fingertips of the buyers.

Suppose that a man has a good list of grocers. He would sell them the blank card forms, with cases, and solicit advertising from the manufacturers. The gro-

cers would want cases and blank forms to go with the manufacturers' cards, and the manufacturers would want to use cards in order to have their advertising matter incorporated in the buyers' index-card system, as shown in Figure II.

Many manufacturers and jobbers give retailers want books, and the cards could be sold for the same purpose, the name or product being advertised on each card.

This system gives the buyer a uniform catalogue, and at the same time, by the use of color, cuts and artistic typography, the manufacturer can make his advertising more distinctive than it is possible in trade journals. If manufacturer's cards were sent out periodically, postage, express charges and printing costs would be reduced, and manufacturers and jobbers could be induced to send their changes, special information and quotations on cards.

### FACTORY SHIPMENTS

This is an example of an adaptable system and one of value, contributed by Lawrence L. Hall.

This system, which was installed in the factory of Hilliard & Tabor, at Haverhill, Massachusetts, after many weeks of experimenting and a careful study of the needs of the factory, has now been in operation for a year, and works to the entire satisfaction of the company.

How Records Are Kept of All Orders.—At this factory the packing and shipping rooms are on the same floor. As the same man has to do with both departments, one card answers for two uses. The trade is divided between the jobbing and retail trade. The orders are entered in books, those from jobbers going into what is termed the "S" book, and retail orders in the "T" book.

On the customers' cards an initial is used to designate, such as "J" after the firm name of jobbers. The card also contains the page on which the order is entered. This is placed in the upper left-hand corner of the card (Figure I), and on the first ruled line is

stamped or written "File Page," which will be referred to and fully explained later. On the next line appear the shipping directions, which are written in pencil, so as to be easily erased in case of a change in routing. If there should be a change in routing the change is made immediately on the card, and should this necessi-

38	5	Cal	hn. ruch	elsburg o	und Co	•
File hage.	92.			San Fran	eisco, Ca	e.
Ship.	18/08	Sun	net Roul	E. 6 L.9	Spence.	349 Broad
						· New York at
made.				mak	u mo shi	n. wuder 1868.
Carton	W	hete	Latel	.Cover	Stip .	
Special.		14 -	5/4-4/8	- Lal	elo from	Hayo.
,		14-	43/4-41/		-	
		-				

Figure I

tate a change in the date of shipment, the entry and date is placed in the second column of the card (Figure I).

Handling the Routing of Crders.—The routing order is posted in a file, such as many firms use for filing

443	5	Jones, David a Co.	Expert.
File page.		3ydney, n.s.w.	Australia -
Ship -		Can. Pac. via Vancour.	
		Grass weight	, outside measure.
Mark Cases.		mento "Fre	m H + T. U.S. 7 " ou
		cover "made	e un America " oca
		aide.	
Cartino		White Label	Label from years
Special.			
Stand Co	atme	- Sample no 827	

Figure II

invoices, and the page number is placed in the second column, on the first line, in front of "File Page."

The entire correspondence from a customer is filed on this page, whether relating to shipping, marking cases, cartons, labels or any other detail connected with packing or shipping.

A note of the customer's request and the date is also placed on the card, and as the file is always in reach of anyone who uses the index, reference to the original letter is a matter of one moment.

	_	
127	T	Wetterly and Kayser Shoe Co.
File page.	171	Tasading, Cal.
Ship.		M.D. Sauta Fe.
		Wooden Cases. Special.
		White label. top label.
Carterra.		Labelo pour Tolman.
Special	Phase	1244-598-4
	W00.	12-49/4-3/4- gilt edge-
		above are outside measurements
		including cobe.
	_	

Figure III

"Special" Cards.—Some of the firm's customers require special marks or cases, so after the word "Mark" the requirements are placed. Should a customer use a regular carton, under "Carton" on the card is stamped "White" or "Stock," and, as a rule, no entry is made after "Wooden Cases," but if a carton is used with a label, "Special" is stamped after "Carton" and "Stock" after "Wooden Cases," and a note is also made of where the label is obtained.

When a carton of special size is used, the word "Special" follows both carton and wooden case. The dimensions of a carton are given, and, after the words, "Stamp Carton," the request of the customer as to stamping is carried out.

All of the foreign buyers of this firm wish the number of the sample from which the shoes were ordered stamped on the carton as a means of ready reference in case of future orders.

How Branch Stores are Distinguished.—Some of the customers have stores in two or more places, and a shipment to the wrong store is not pleasing to the

buyer. For instance, a customer has one store in Bakersfield, California, and another in Fresno. At the top of a card, similar to Figure III, a note may be made, reading, "Also at Los Angeles," and on the other card a notation will be made at the top, reading, "Not Pasadena."

#2	. o. of has				1/9 Boot center	w, t	nack in 1 case.
10	Weo.Ex	22	Woolex.	30	₩ 00 .EX		
39	7 Bt. 4865.	25	6/9 Bt. 44Bt.	18	Bt. 44Bt.		
12	Joo.Ex.	22	600.0x 00	36	6)00.04		
14	Bt. Bower.	12	Bt. 30	12	Bt. 44 Bt.		
14	Woo.cx. 24lt.			37	4)00.0x		
12	Bt.			24	Bt. 55 Bt.		
13	Wooley.					55	wow 60 bt
7	Bt. 18 bt.					12	Bt.
17	W00.0x. 04						
18	Bt. 83 bt.						

Figure IV

Be it said in explanation of this system that the firm has cartons of different sizes for each store, varying considerably in dimensions, as the cards will be made to show. These cartons are designed to fit the shelves, and if a mistake were made, the ensuing trouble is apparent. At the time of shipment, before it is too late to mend matters, the index does its work admirably and trouble is saved both maker and buyer. Should shipments be made at the same time to both stores, the value of the index is even more appreciated.

"Capacity" Cards.—A feature which is of much service to this company, and one which has seldom if ever been used, is a card (Figure IV), showing the capacity of cases with cartons of a size different from the size it was designed to hold. Among the retailers orders have cases of a varying number of pairs, from one or two up, and it is quite necessary to see that every case is filled to its capacity. The notes on the card (Figure

IV) are not complete, but are of great use to refer to, as accurate estimates can be made from them.

On another card (Figure V) dimensions of cases for special size cartons are noted, and in an emergency

	in 12 mens	41	in 33 mens	64	in 48 mens	
	" 12 boot	40	. 33 boot.		" 48 boot	
18	" 15 AMEND		" 36 mens	61	• 60 mens	
17	· 15boot.		" 66 boot		. 50 boot.	
	- 18 meus	45	- 39 mens		" 62 melus	
22	- 18 boot		" 39 boot.		" 5% boot.	
	= 21 mens	49	" 40 milus	68	" 55 mens	
25	". 21 boot		" 40 bost.	67	" 65 boot	
28	" 24 mena		- 42 mans	76	" 60 miles	
	· 24bost.		" 42 boot		" 60 boot.	
38	. 30 mans	53	* 44 mens			
	. 30 best		" uybest.			

Figure V

the size of the special case demanded may be compared to the regular cases of about the same size, and a fairly good fit is secured in most cases.

## SOLICITING

Following is given, by A. C. Hanbold, Special Agent, Equitable Life Assurance Co.; a system using a two-card record. While here applied to insurance, it affords valuable pointers to a solicitor in any line of business.

The insurance solicitor who makes a business of writing insurance instead of regarding it as a makeshift from which he expects to retire as soon as possible finds that in order to keep track of his customers and prospective customers he must start some system by which he can keep on record the names and circumstances of these men and some essential facts regarding them.

List of Prospects.—The man who is active in the insurance business to-day will have probably two hundred men and women on his list with whom he wishes

to keep in touch. It is impossible for him to keep all the facts regarding these people in his head or on odd slips of paper. The system here described is very simple, entails the minimum of work, and is inexpensive, but wholly satisfactory, for it does all that is required.

A Mechanical Aid to Memory.—When a person whom the solicitor wishes to approach is first brought to his attention, his name is placed on a buff colored card, ruled as shown in Figure I, with such facts in the blanks as may be known concerning the individual in question. Blanks are left for records of interviews and appointments, as well as for facts which may be learned in the course of the labor with this man.

INTERVIEW		
	BUSINESS ADDRESS	
	RESIDENCE	
	BUSINESS	
	INSURANCE IN FORCE	
APPOINTMENTS	AGE	
	FORM OF POLICY SUGGESTED	
	REMARKS	

Figure I

Filing.—These cards are filed alphabetically in a case, so that they may be referred to at any time. To keep the dates of appointments in mind, they are entered on a calendar pad from these cards, inasmuch as the number of cards is usually too small to warrant their being classified according to dates of future interviews chronologically.

Customer's Card.—When a policy is written for a person who has been solicited, this buff card is destroyed and a new "customer's card" is made out similar to that shown in Figure II. The essential information on the buff card is transferred to this white card, and

in addition to this the essential facts concerning the policy written are recorded. This card is then filed, also alphabetically, in a customer's case, where it is preserved always.

"Improbable" Prospects.—The records of persons upon whom the solicitor has been working, for whom no policy has been written and who are apaprently hopeless, at least for the time being, are taken out of the buff card case, and are filed in a pigeon-hole, with others of their kind. These are read periodically, every few months, for information of any new facts concerning any persons who are entered on the cards. Death, alone, is necessary to designate a card as "dead," in which case it is destroyed.

	NAME
DATE OF APPLICATION	BUSINESS ADDRESS
NO. OF POLICY	RESIDENCE
WHEN DUE	BUSINESS
PREMIUM	PLACE OF BIRTH
FORM OF POLICY	BENEFICIARY
AGE	REMARKS .
DATE OF BIRTH	

Figure II

Whenever the person whose record appears on a buff card—placed in the hopeless file—is found to be in a more receptive mood, the card is again placed in the card case with the cards of others who are being solicited, and work is again begun upon him.

Future Prospects.—Persons who may for some good reason not be approachable for soliciting for three, six months, or even longer, have their cards left in the regular file, with this information recorded on them. Their names may either be entered on a calendar pad on the date on which they are to be seen again, or it may be good policy for this and for general pur-

poses to look through the file of buff cards every month, and so keep track of all these individuals. In any case, all such information is always written on the card under "Remarks," so that it can be referred to when necessary.

The Value of a Record of Policies Written.—The white cards are kept partly in order that the solicitor may always have at hand the list and facts of all the policies he has written—a record which will be found very serviceable and convenient, as for one reason or another a solicitor has many occasions to look up his policies. If he has no such record, he must either go to the books of his company or to the document which his customer holds. But these cards fulfill another function. A solicitor is never satisfied with writing one policy for an individual. He will wish, when a time has passed since his first policy has been written, to solicit him for another. He has then all the facts at hand which he formerly had on his buff card.

If a customer is approached for a second time, a buff card is again made out for him, if a second policy is secured another white card is filled out.

## LAW

Following is described by Morris R. Osborne, a method by which the documents of a law office may be kept in easily accessible form.

The Common or Envelope Method.—The ordinary method of filing papers in the legal department of a large corporation is generally that used in most law offices—that of placing all the documents in a case, in a large envelope, writing each step that is taken, and of making a notation of each document on the envelope, and filing the envelope alphabetically under the name of one of the parties. The disadvantages of this method are many. In the first place, the envelope used is rarely printed so that important information can be prominently displayed, and the whole envelope must be searched to discover what disposition has been made of the case. Then, the space on the envelope, even if both sides are used, often proves insufficient to contain

all the steps which are taken, and it is inconvenient to provide another envelope merely for writing purposes. Also, these envelopes are usually filed in a vault, and eventually become torn and mutilated and the writing on them undecipherable.

With this system attention is called to cases by means of a note, made on some calendar, or more often by memory, and in this way it very often happens that action is not taken on the day on which it should be, and damage often results.

In order to obviate these disadvantages, there is here presented a system which is as easily handled as the

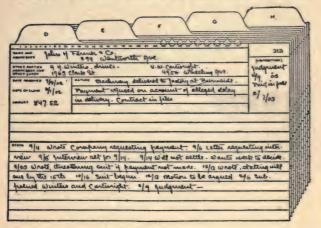


Figure I

old envelope method, and which gives much better results. By its use all the information concerning a case is available at a moment's notice without the delay of searching in a vault, and with the ordinary amount of care no necessary action on a case can be overlooked.

Classes of Cases.—The matters which come into the legal department are of various natures, but may generally be divided into two classes—those in which the company itself is plaintiff, or at least aggressor, and

those in which the company is defendant. These may be treated distinct from each other, if desired, but I have found it perfectly suitable to handle them in the same way. Accordingly, as each case is received in the department, a card is made out for it—a yellow card for claims against customers and similar matters and a white one for actions against the company. These cards contain spaces for the names and addresses of the parties to the case, the names of any other persons, such as witnesses, who may be involved. The nature of the claim is to be described in a suitable space and a prominent place is left for an entry as to the ultimate disposition of the case. Thus, by reference to the card, it can be told at a glance whether the case has been settled or not, and, if so, how.

Use of the Card Index.—These cards are numbered consecutively, and when made out are filed alphabetically under the name of the person involved. At the same time that the card is made out, an envelope or folder is taken, bearing the same number as the card, and all papers pertaining to the case are placed in it. These envelopes are filed numerically in a vertical file, from which they are instantly obtainable by reference to the cards, should it be necessary to consult any of the papers or insert new ones.

Filing.—As soon as the case is received, some action is taken, and a notation to this effect is made on the card. The card is then filed alphabetically, a computation made as to the date on which the next step ought to be taken, and a tab placed over that date in the list of numbers at the top of the card. As each step is taken, a note to that effect is made on the card, and the tab pushed forward to the next date when action is necessary. The back of the card is ruled, so that when the space available for entries on the front has been utilized, more information may be entered on the back.

Dead File.—When the case has been brought to some conclusion, a notation to that effect is made and the card removed from the live file and placed in a general case, where it is available should any question arise

in the future, as it often does, concerning the adjustment.

By a rapid glance over the tabs, all the cases which need attention on one day, and for two or three days to come, can be located at once. In order to facilitate location of the cards, it has been found helpful to indicate ordinary claims by a black tab, justice shop cases by a red one, and cases in an upper court by a white one. Another valuable factor in this system is that only the live matters are before one at any time.

### NUMERICAL SYSTEM OF FILING

The old style of filing correspondence was by alphabetical arrangement in flat files. These as they became full were stored with their contents. Unless the files were rearranged—which was a rare occurrence—they contained live as well as dead correspondence. For instance, when the file "Sa-So," was removed with its contents from the series, letters from the Smith Manufacturing Co. might be needed daily with no recourse except to either assort them and place them in the new file or refer to the stored file. Then, too, letters pertaining to and even coming directly from the Smith Mfg. Co. might be indexed under other letters and be overlooked when the firm's correspondence is assembled.

The Vertical System.—This system of filing letters, papers, circulars and similar matter is an improvement over flat sheet files, just as the card system is an improvement over books. It consists of a cabinet of drawers in which folders are placed on edge between guide or index cards. In the folders is placed the matter to be filed, there being one folder for each firm or subject.

If the folders are arranged numerically, which is advisable in almost every case, each firm or subject is given a number corresponding to the folder representing it. Guide cards with numbered projections to quickly catch the eye are placed at intervals of 10 or 20 and facilitate quick reference to any folder. In the best system, the cards bearing these numbers are

arranged either alphabetically, geographically or topically as desired by the user.

#### ADVANTAGES OF THE VERTICAL SYSTEM.

Quick Reference.—Any folder, and therefore all the correspondence, can be secured at once. Only an instant's consultation of the card index is needed and not even this will be necessary after the system has been in use for a short time, for the clerk soon memorizes the numbers. The latest letters are always on top.

Mistakes Avoided.—Numbers cannot be confused. Blurred copies are easily identified. Only transient correspondence—one or two letters from the same source—are arranged alphabetically. In some offices where only a very few letters are ever received from any one firm the entire arrangement is alphabetical.

Greater Capacity.—In the same amount of space double the number of letters can be filed. Old and useless matter is removed and new takes its place. There is no waste space on account of drawers filling irregularly, as one has but to shift excess folders and guides from an over-filled drawer to one with empty space.

Correspondence Not Scattered.—All correspondence from beginning to end is in one folder. Letters signed by different members or employes of a concern are all filed in the folder with the same number. Cards are made out for each so that the correspondence can be located with any of the names as a guide. Postal cards and small pieces are safe in the folders.

Copy Books Unnecessary.—Carbon copies are made, the stenographer noting the number on the letter, putting it on the letter written so it is duplicated on the copy and the incoming and outgoing correspondence are together.

Easy Reference.—By means of cards in the index, letters and papers may be indexed in so many ways that nothing can be lost. Letters of quotation, for instance, may be indexed both by article and by name. In taking up a subject, as an example, "Repairs on Engine-house," one folder can be devoted to this subject, and all the letters, plans, contracts, etc., pertain-

ing to this work can be filed in one folder, but be indexed by name, subject or in a dozen different ways in the card index.

Less Cost.—Capacity for capacity, not only the first cost but the subsequent expense for transfer cases is much less. The index cards may also be used for customers, sales or credit records, and as an index to orders.

# BUSINESS ADVICE BY CAPTAINS OF INDUSTRY

The business man of to-day who deals with the larger problems of finance, law, trade, and the many other divisions comprehended under the generic term "business," makes no secret of the methods by which success was won. The successful man in a certain line—in common with the man who has not attained business greatness—is always interested in the sayings and advice of the Captains of Industry of our nation.

Following are given a number of synopses of the rules which were primarily instrumental in bringing those from whom quotation is made to the haven of success in business.

Elbridge G. Keith, President, The Chicago Title and Trust Company, says:

"I take up one thing at a time. When I lay a thing aside it is completed—completed as well as I know how. Doing one thing at a time, keeping at it until finished, and doing well, must bring success. To do things well means that a certain amount of time and thought must be upon them. What will allow the modern business man to put the most time and the best thought on the greatest number of acts each day? A system—a system which will bring them to his attention methodically—a system which will put such facilities at his command that they can be disposed of quickly and intelligently—a system which will put only a fraction of the work upon him (but that fraction the vital point) and carry out the rest accurately and efficiently. Some people perform the tasks that are

assigned them well, but they do not succeed. Why? Simply because they are doing just what they are asked to do—no more. It is the man who does a little more than is assigned to him who gets the position above when it becomes vacant. It is the man who does everything that he can find to do and does all these things well whose climb is constant; and he can only do those few things more than are assigned to him by using systematic methods in his own work."

Edward S. Lacey, President, The Bankers' National Bank, Chicago, says:

"The business world is like an immense plant of machinery where all parts must work in unison. In a plant this result is brought about by the application of mechanical principles and the perfection of mechanical devices. In business, smooth gradation of one operation into another, the turning out of a volume of work with no hitches or errors, must be accomplished through the application of system and systematic devices. There is another vital point of comparison between the mechanical and the business world. great multitude of inventions did not come until there was a certain concentration of industry, which first established a closer relation between the different processes and then introduced new methods and devices adequately to handle them. In the same way, while the business world was a mass of smaller units, the necessity for system was not so apparent, but as business units increased in size, necessity soon brought about the adoption of systematic principles and methods. A big thing is merely a combination of many little things, but the little things are just as important as they ever were. And to keep watch over and carry out the little details requires the organization of a perfect system."

Thomas P. Phillips, President, The Federal Trust and Savings Bank, Chicago, says:

"There is no business success without system. From my own experience I should say there is no prospering business to-day whose success is not in some degree based upon systematic methods. Now, modern business is so arranging itself that the business man occupies as distinctive and unified a field-a field requiring as much training and technical knowledge-as the lawyer or the engineer. A technical knowledge of and training in systematic methods and organization is the prime requisite in the education of the modern business man and these two phrases mean a great deal. They stand for low costs and decreased expenses, for accuracy and promptness, for time and labor saving, for efficiency and understanding. In the modern game of business two of the most important factors are initiative and will-which means the power to inaugurate and build an organization, and executive abilitywhich means the capacity for conducting a system. It is the man who uses system in his business, and therefore does business with least cost and with least effort. who shows the profit at the end of the year. And it is the man who uses system in his business, and therefore knows the details, who is able to develop his business to its greatest possibilities."

Edwin A. Potter, President, The American Trust and Savings Bank. Chicago, says:

"A thorough knowledge of the smallest details of one's business, well-directed effort in work, and the power to organize a business-these are the three foundation stones of success. In this day of great industries a thorough knowledge of the smallest details of a business could not be secured in the old way of knowing simply through the process of doing. There are too many details. The business man to-day must have facilities by which knowledge of them will come to him automatically. Well-directed effort means more than merely industry and hard work. It means that the worker must know how and where to apply his labor to the attainment of the best and biggest results. And the power of organizing and conducting a big business -executive ability-means the power to make all the small processes of the business dovetail into each other and work smoothly and efficiently. Through all these three essential factors of business success runs the thread of system. Knowledge of the details of a business can come only from a system which will bring them to the attention of the business man regularly. The hardest work can bring the best results only if efforts are intelligently and systematically applied. The organization of a business can only come through the systematization of the smaller processes."

Henry Siegel, the founder of Siegel Cooper & Co. of New York, president of Siegel Cooper & Co. of Chicago, of the Simpson-Crawford Co. and the Fourteenth Street Store of New York, and the new Siegel, Cooper & Co. of Boston, says:

"System and organization are the controlling elements of any large commercial or industrial enterprise—the two reins by which the business bodies are guided. In nearly every sphere of activity are found the elements of skill, enthusiasm and enterprise—qualities that make for success only when they are applied in the right direction. Skill must be directed along proper channels; enthusiasm must be directed to specific ends; enterprise must be organized to meet certain conditions and to attain designated results. And in this co-operation—this working together for the benefit of all concerned—system reaches its highest function."

Henry C. Lytton, President of "The Hub," the largest furnishing store in Chicago, says:

"To what extent any business or other enterprise is successful is dependent primarily upon personality, the central figure in any line of activity. To what extent a personality is successful is dependent upon that personality's application of those policies and methods that serve its ends. A personality is responsible for the success or failure of a business firm largely to the extent by which he is enabled to organize and to control its forces—to install and apply the personal influence in his systems.

"I have never known of a great business success without a personality. I have never known of a great personality in business without a system."

Leon Mandel, President of Mandel Brothers, Chicago, says:

"There is probably no other single word in the language that better describes success than 'system.' The larger the business, the better must be the system by which it is conducted; yet whatever its size, system is the essential factor.

"Modern titanic business institutions have been made possible by commercial possibilities linked with system. System enables the head of a concern to hold the reins of management of any business; it keeps him in touch with his assistants, his sales, his stock, his customers. I have been methodical and systematic, that I might obtain the best results by the surest means and in the shortest time."

Isaac Gimbel, President of Gimbel Brothers, retailers of Philadelphia and Milwaukee, says:

"I install a system in every branch of my business—and follow up that system.

"The tendency of modern retailing is to simplify every detail of the work. This means neither too much recording—red tape—nor too little recording—carelessness; it means the happy medium that gets the greatest returns from the least outlay of time or money—system.

"System is a necessary servant, but a bad master. System must be operated—it does not operate itself. System economizes time, labor, expense; and the best system is that which effects the greatest economy of all three."

P. A. Conne, Secretary and Treasurer of Saks & Company of New York, London, Paris and Berlin, says:

"System means to a business what good tools mean to a craftsman. A merchant can do good work no more than a craftsman does good work unless he has the mechanical means. And the mechanical means of the business man is system.

"System means consecutive attention to all the essential and the elimination of all the unessential

details. It is the means whereby the greatest amount of work may be done at the least expense of time, energy and money.

"System means knowledge versus guesswork, facts versus fiction. And system always means economy in the end, or it is no longer system."

Edward B. Butler, President of Butler Brothers, of

New York, Chicago and St. Louis, says:

"The captain of industry of to-day learned in his youth that a mental plan was needed for any undertaking. Out of this planning grew his system; out of this system grew his success. I have never known a successful merchant who was not systematic. great mercantile business is possible only when the minutest details are given their full measure of importance.

"The captain of industry must hold the helm; but he must depend upon his ship-system-and upon those who operate it."

Graeme Stewart, of the Wm. M. Hoyt Co., Chicago, says:

"To attain success in modern commercial life requires the perfection of a system for conducting business at the least possible expense and the power to put all the energy at one's command into this system.

"The process by which the energies of a business enterprise are directed toward specific ends-the system by which its powers and plans are utilized-are the fundamental factors in business building.

"To be successful a man must have his thoughts on his work."

Adolphus C. Bartlett, President of Hibbard, Spencer, Bartlett & Company of Chicago, says:

"After forty years of experience I am convinced that success in business depends not only upon natural ability, but upon a thorough preparation and training in improved systems and exact methods. This preparation is specially valuable in these later years when information about the organizations and methods of business houses has become more general and competition more keen.

"The difference between a good and a poor preparation in business method is just the difference between system and carelessness, between success and failure."

Harry G. Selfridge says:

"More important than any one thing in the conduct of a retail business is organization. No matter how forceful the personality which inspires an establishment, how superior its goods or how efficient the individuals in its employ, organization is necessary to make them most effective."

L. C. Smith, of the Smith-Premier Typewriter Co.,

"Success in the modern industrial world is largely a matter of organization; organization is a matter of system. All business undertakings must be operated under a thorough system to be successful. Each part must work in harmony, as a perfect system admits of no friction. Bring all elements into accord, else the desired ends will not be attained. And the means of bringing these elements into accord is system."

John H. Converse, of the firm of Burnham & Williams, proprietors of the Baldwin Locomotive Works, says:

"Success in the modern commercial world I attribute to knowledge of business; work; system.

"A successful man must know his business. He must apply this knowledge—he must work, and he must work to the best advantage. And to work to best advantage he must work with system.

"Much energy is lost because it is not applied systematically."

Andrew Carnegie, in "The Empire of Business," says:

"The secret of success is a simple matter of honest work, ability and concentration. There is no question about there being room at the top for exceptional men in any profession. Your problem is, how to get there. The answer is simple: conduct your business with just a little more ability than the average man in your line. If you are only above the average man your success is secured, and the degree of success is in ratio to the greater degree of ability and attention which you give above the average."

Russell Sage, as quoted by the New York World, says:

"To the young man of to-day who wishes to get on, I would say that the common rules of success are simple ones. Be faithful to whatever trust is in your keeping, be industrious and frugal, and you cannot fail."

George W. Ogilvie says to the young man starting out:

"If you need the money, take any kind of a job you can get and do your very best. You may be successful at first; at any rate, it will take your employer a week to find it out if you are no good."

John Wanamaker's advice to young men is:

"Do not hesitate to branch out; learn; observe; be honest and upright, and you will not fall short of success."

Similar advice to the foregoing has been given by others prominently successful in the history of our country. Philip D. Armour, Marshall Field, John D. Rockefeller and Alexander Revell emphasize one or two points more, perhaps, than others, but all successful men have the same formula: "Well directed work wins."

# BOOK V

# BUSINESS TABLES

## DUTIES ON IMPORTS

A Table of Leading Articles Imported, Giving Rate at Entry by the Tariff Act of 1897.

Note.—N. e. s. indicates "when not elsewhere speci-

fied"; ad val. indicates ad valorem duty.
Articles— Tariff Rate—
Alcohol, amylic, or fusel oil 1/4 ct. per lb.
Animals for breeding purposes Free
Barley, bushel of 48 lb 30 ct. per bu.
Beads35% ad val.
Beef, mutton, and pork 2 ct. per lb.
Beer, ale, not in bottles20 ct. per gal.
Beer, porter, and ale, in bottles40 ct. per gal.
Bindings, cotton45% ad val.
Bindings, flax45% ad val.
Bindings, wool
ad val.
Blankets
ad val.
Blankets, value 40 ct. to 50 ct33 ct. per lb. and 35%
ad val. (a)
Bonnets, silk60% ad val.
Books, charts, maps25% ad val.
Books, over 20 yr. old, for public
libraries Free
Bronze, manufactures of45% ad val.
Brushes40% ad val.
Butter, and substitutes 6 ct. per lb.
Buttons, sleeve and collar, gilt50% ad val.
Canvas for sails45% ad val.
Caps, fur and leather35% ad val.
Carpets, treble ingrain22 ct. per sq. yd. and
40% ad val.
Carpets, two-ply

40% ad val.

Carpets, tapestry Brussels	
	40% ad val.
Carpets, Wilton, Axminster,	
velvet	
	40% ad val.
Cattle (over 1 yr. old)	
Cheese, all kinds	
Cigars and cigarettes	
	ad val.
Clocks, n. e. s	40% ad val.
Clothing, ready-made, cotton,	
n. e. s	50% ad val.
Clothing, ready-made, linen, silk.	
and woolen	
Coal, anthracite	
Coal, bituminous	
Coffee	
Confectionery, all sugar	
ourself, all sugarification	than 15 ct. per lb.)
Copper, manufactures of	
Cotton gloves	
Cotton handkerchiefs, hemmed.	
Cotton handkerchiefs, hem-	15 /0 au vai.
stitched	EEO, ad wal
Cotton hosiery	
	pairs and 15% ad val.
Cotton shirts and drawers	
Cotton shirts and drawers	
G-th	and 15 to 50% ad val.
Cotton plushes, unbleached	
	25% ad val.
Cotton webbing	
Cotton curtains	
Cutlery, more than \$3 per doz.	
	40% ad val.
Cutlery, razors, over \$3 per doz.	
	ad val.
Cutlery, table knives	. 16 ct. each and 15% ad
	val.
Cutlery, table knives, over \$4	1
per doz	
Diamonds (uncut, free), cut and	1
set	.60% ad val.

Diamonds, cut, but not set 10% ad val.
Drugs (crude, free), not crude 1/4 ct. per lb. and 10%
ad val.
Dyewoods, crudeFree
Dyewoods, extracts of % ct. per lb.
Earthenware, common25% ad val.
Earthenware, porcelain, plain55% ad val.
Earthenware, porcelain, etc.,
decorated
Eggs 5 ct. per doz.
Engravings25% ad val.
Extracts, meat
Fertilizers, guanos, manuresFree
Firearms (b)
Fish, American fisheries Free
Fish, smoked, dried
Flannels
ad val.
Flannels, value 40 ct. to 50 ct. 33 ct. per lb. and 35%
ad val.
Flax, manufactures of, n. e. s 45% ad val.
Flowers, artificial50% ad val.
Fruits, preserved in their own
juice1 ct. per lb. and 35%
ad val.
Fruits, apples
Fruits, oranges, lemons, n. e. s 1 ct. per lb.
Fur, manufactures of35% ad val.
Furniture, wood35% ad val.
Glassware, plain and cut60% ad val.
Glass, polished plate, not over
16 in. × 24 in
Glass, silvered, not over 16 in.  × 24 in
Glass bottles, over 1 pt1 ct. per lb.
Gloves, men's, ladies', children's. *
Glucose
Clue value not over 7ct ner lh 216 ct ner lh (c)
Glue, value not over 7ct. per lb. 2½ ct. per lb. (g)
Gold, manufactures of, not jew-
Gold, manufactures of, not jew- elry45% ad val.
Gold, manufactures of, not jew-

Hair manufactures, n. e. s35% ad val.
Hair, human, unmanufactured20%; not drawn, free
Hams and bacon 5 ct. per lb.
Hay\$4 per ton
Hemp cordage 2 ct. per lb.
Hides, raw, fried, salted, pickled. 15% ad val.
Honey 20 ct. per gal.
Hoops, iron or steel, baling ½ ct. per lb.
Hops 12 ct. per lb.
Horn, manufactures of30% ad val.
Horses, mules\$30 per head (h)
India rubber, manufactures of30% ad val.
India rubber, vulcanized35% ad val.
Instruments, metal45% ad val.
Iron, manufactures of, n. e. s 45% ad val.
Iron screws, ½ in. or less in
length12 ct. per lb.
Iron, tinned plates 1½ ct. per lb.
Ivory, manufactures of, n. e. s 35% ad val.
Jewelry
Knit goods, wool, value not over
30 ct. per lb
ad val.
Knit goods woolen annarel 20
Knit goods, woolen apparel, 30
ct. to 40 ct. per lb
ct. to 40 ct. per lb
ct. to 40 ct. per lb
ct. to 40 ct. per lb44 ct. per lb. and 50% ad val.
ct. to 40 ct. per lb

Molasses, n. e. s	. 40° to 50°, 3 ct. per
	gal. (i)
Muffs, fur	. 35% ad val.
Musical instruments	
Nails, cut	. 6-10 ct. per lb.
Nails, horseshoe	. 21/4 ct. per lb.
Newspapers, periodicals	. Free
Oilcloth, value over 25 ct	.8 ct. to 20 ct. per sq.
	yd. (j)
Oil, olive	.50 ct. per gal. in bot-
	tles, etc.
Oil, olive, n. e. s	. 40 ct. per gal.
Oil, whale and seal, foreign,	
n. e. s	. 8 ct. per gal.
Onions	.40 ct. per bu.
Opium, liquid preparations	. 40% ad val.
Opium, crude and unadulterated	.\$1 per lb.
Paintings and marble statuary.	. 20% ad val.
Paper manufactures, n. e. s	. 35% ad val.
Paper stock, crude	. Free
Pepper, cayenne, unground	. 2½ ct. per lb.
Perfumery, alcoholic	.60 ct. per lb. and 45%
	ad val.
Photograph albums	.35% ad val.
Photograph slides	.25% ad val.
Pickles	.40% ad val.
Pins, metallic	. 35% ad val.
Pipes of clay, common, 40 ct. pe	
gross	. 15 ct. per gross
Poultry, dressed	.5 ct. per lb.
Potatoes	.25 ct. per bu.
Pulp wood, for paper makers	. 1-12 ct. per lb. mechan-
	ically ground (1)
Quicksilver	
Quinine, sulphate, and salts	. Free
Railroad ties, cedar	. 20% ad val.
Rugs, Oriental	. 10 ct. per sq. ft. and
*	40% ad val.
Salmon, dried or smoked	
Salt	
	ages; 8 ct. per 100
	lb., bulk

226 BUSINESS MAN'S EI	VUYULOPEDIA.
Sauces, n. e. s	40% ad val.
Sausages, bologna	
Sausages, all other	
Sealskin sacques	
Silk, raw	
Silk, spun in skeins	
Silk laces, wearing apparel	
Skins, uncured, raw	
Skins, tanned and dressed	
Slates, manufactures of, n. e. s	,-
Smokers' articles, except clay	
pipes	
Soap, castile	
Soap, toilet, perfumed	
Spirits, except bay rum	
Straw manufactures, n. e. s	
Sugars, not above 16 Dutch	
standard	95-100 ct. per lb. (m)
Sugars, above 16 Dutch standard	
Tea	
Tin, ore or metal	
Tin plates	
Tobacco, cigar wrappers, not	_,_
stemmed	\$1.85 per lb.
Tobacco, if stemmed	\$2.50 per 1b.
Tobacco, all other leaf, stemmed	50 ct. per lb.
Tobacco, unmanufactured, not	00 00 pc 12.
stemmed	35 ct. per lb.
Umbellas, silk or alpaca	50% ad val.
Vegetables, natural, n. e. s	25% ad val.
Vegetables, prepared or pre-	/0
served	40% ad val.
Velvets, silk, 75% or more silk	\$1.50 per lb. and 15%
	ad val.
Watches and parts of	40% ad val.
Wheat, bushel of 60 lb	
Willow for basketmakers	
Willow manufactures, n. e. s	
Wines, champagne, in 1/2-pt. bot-	
tles or less	\$2 per doz.
Wines, champagne, in bottles,	
½ pt. to 1 pt	\$4 per doz.

Wines, champagne, in bottles, 1
pt. to 1 qt\$8 per doz.
Wines, still, in casks containing
more than 14% absolute alco-
hol 50 ct. per gal.
Woods, cabinet, sawed\$1 to \$2 per M. ft.
Wool, first class11 ct. per lb.
Wool, second class 12 ct. per lb.
Wool, third class, n. e. s., above
13 ct. per lb 7 ct. per lb. (e)
Wool or worsted yarns, value
not over 30 ct. per lb27½ ct. per lb. and 40%
ad val.
Wool or worsted yarns, value 30
ct. to 40 ct., per lb 38½ ct. per lb. and
40% ad val.
Wool or worsted yarns, value
over 40 ct., per lb 38½ ct. per lb. and
40% ad val.
Woollen or worsted clothing44 ct. per lb. and 60%

ad val.

\*The Dingley Tariff increases rates on women's and children's gloves uniformly 75c. per dozen pairs; on men's gloves the rates are the same as the Wilson rates. (a) Valued at more than 50c. per lb., 33c. per lb. and 40 per cent ad val. (b) Specific duties ranging from \$1.50 to \$6 on each article and 35 per cent ad val. (c) On goods above 40c. and not above 70c. per lb.; duty on goods above 70c, per lb., 44c. per lb. and 55 per cent ad val. (d) Value \$1 per lb., 20c. per lb. and 15 per cent ad val., with increasing duty of 10c. per lb. for each 50c. additional value up to \$2.50; all over \$2.50 per lb., 60c. per lb. and 15 per cent ad val. (e) Wool valued at 12c. per lb. or less, 4c. per lb.; above 12c. duty is 7c. per lb. (f) Two prices only in Dingley bill, 30c. and less, and above 30c. (g) If not over 10c. per lb. (h) If valued at \$150; if more, 25 per cent ad val. (i) Above 56°, 6c. per gal. (j) And 15 to 20 per cent ad val. (k) On woolen an additional duty of 44c. per lb. (1) Chemical wood pulp, 1-6c per lb. (m) When not above 75°, but for every additional degree by polariscopic

test, 35-1,000c. per lb. additional, and fractions of a degree in proportion.

Articles of merchandise entering the United States from Hawaii and Porto Rico and entering those possessions from the United States are exempt from duty.

The act of Congress approved March 2, 1902, provides that the customs duties on articles entering the Philippines from the United States shall be the same as on those entering from foreign countries. On articles entering the United States from the Philippines the full tariff rates shall be collected except that a 25 per cent reduction shall be granted on articles produced and grown in the Philippines.

# TABLES OF WEIGHT, MEASURE, ETC. TROY MEASURE.

	For weighing	gold, silver and	precious	stones.
24	grains make.		1	pennyweight.
20	pennyweights	make	1	ounce.

pound Avoirdupois.

The Troy pound is the one adopted by the mint at Philadelphia and elsewhere, and may be regarded as the standard of weight. The following tables show the formula of Troy weight, and the difference between Troy and Avoirdupois weights:

The Troy pound contains-

5670 grains equal to.....240 pwt. equal to 12 ounces = 1 lb. Troy.

480 grains equal to..... 20 pwt. equal to 1 ounce.

24 grains equal to.... 1 pwt.

The difference is shown as follows:
7000 Troy grains make....... 1 pound Avoirdupois.
437½ Troy grains make...... 1 ounce Avoirdupois.

175 Troy ounces make...... 192 ounces Avoirdupois. 175 Troy pounds make...... 144 pounds Avoirdupois.

1 Troy pound makes..... .822857 pounds, Avoirdupois.

1 Avoirdupois pound make1.215278 pounds, Troy.

One pound Troy is equal to 1 pint Wine Measure.

#### WINE OR LIQUID MEASURE.

Wine, spirits, cider, vinegar, oil, honey, etc., are measured and sold by this measure.

The standard unit for measurement of liquids adopted by the U. S. custom house is the wine gallon, 231 cubic inches, and contains 8.388822 Avoirdupois pounds, or 58373. Troy grains of distilled water.

All liquors except milk, beer and ale are bought and sold by this measurement.

4	gills make1	pint.
2	pints make1	quart.
4	quarts make1	gallon.
311	gallons make1	barrel.
42	gallons make1	tierce
100	gallons make1	anker.
18	gallons make1	runlet.
63	gallons make1	hogshead.
2	hogsheads make1	pipe or butt.
2	pipes or 4 hogsheads make	tun.

One pint wine measure is equal to one pound Troy weight.

Wine, beer and dry measures, and all measures of volume, differ from the cubic measure only in the unit which is used as a standard.

The English Imperial Wine gallon is equal to about 1.2 times the wine gallon of the United States. The wine gallon of the United States contains 231 cubic inches.

One barrel of wine or brandy in Great Brit-

The usual custom in the United States to reduce liquid measures to English or British ones of same denominations is to divide by 1.2, or to be exact, by 1.20032; or to change British to United States measures multiply by 1.2.

### MISCELLANEOUS WEIGHTS AND MEASURES.

A cylinder one foot in diameter and one foot high contains-

1357.1712 cubic inches. .7854 cubic foot. .02909 cubic yard.

188.0064 United States liquid gills. 47.0016 United States liquid pints.

23.508 United States liquid quarts.
5.8752 United States liquid gallons.

40.3916 United States figure gain

20.1958 United States dry quarts.

2.5245 United States dry pecks.

.63112 United States dry bushels.

# A load of timber contains-

50 cubic feet of square timber,

100 linear feet, 6x12-inch timber,

200 linear feet, 6x6-inch timber,

150 linear feet, 4-in. planking 12-in. wide,

200 linear feet, 3-in. planking 12-in. wide,

300 linear feet, 2-in. planking 12-in. wide, 400 linear feet, 1½-in. planking 12-in. wide.

from the first feet,  $1\frac{1}{2}$ -in. planking 12-in. wide 600 linear feet, 1-in. planking 12-in. wide.

The dry flour barrel is not a legal measure in the United States. The only legal barrel of flour contains 196 pounds.

Poddaw.
ton of chestnut lumber equals59 cubic feet.
ton of ebony lumber equals30 cubic feet.
ton of lime equals56 cubic feet.
ton of mahogany lumber equals34 cubic feet.
ton of maple lumber equals48 cubic feet.
ton of poplar lumber equals68 cubic feet.
ton of pine lumber equals55 cubic feet.
ton of sycamore lumber equals59 cubic feet.
ton of walnut lumber equals53 cubic feet.
ton of yellow pine lumber equals65 cubic feet.
stone is about14 pounds.

1	stone of wool is24 pounds.
1	stone of butcher's meat is 8 pounds.
1	cubic foot of ordinary anthracite coal is about
4	cubic foot of ordinary bituminous coal is about
7	
1	cubic foot of ordinary Cumberland coal is
	about 53 pounds.
1	cubic foot of ordinary cannel coal is about 50 pounds.
1	cubic foot of ordinary charcoal (hard wood) is
	about 18½ pounds.
1	cubic foot of ordinary charcoal (pine wood) is
	about
100	cubic feet of stone weighs about13000 pounds.
	cubic feet of stone is reckoned1 cord of stone.
	cord Virginian pine is about2700 pounds.
	cord southern pine is about3300 pounds.
	cubic feet mahogany weigh1 ton.
	cubic feet oak or ash weigh
60	cubic feet elm weigh
	cubic feet fir weigh
	ton of coal is 28 bushels43.56 cubic feet.
	ton of ice is43 cubic feet.
1	ton of freight is40 cubic feet.
	ton of round timber is
	ton of square timber is
	ton of shipping timber is42 cubic feet.
	cubic foot of water is
	cubic foot of mortar is98 pounds.
	cubic foot of brickwork is90 to 120 pounds.
	cubic foot of sand solid is
- 1	cubic yard of sand is about3037 pounds.
	cubic yard of common soil is about3429 pounds.
	cubic foot of sand loose is95 pounds.
	cubic foot of earth loose is93% pounds.
	cubic foot of fire brick is
	cubic foot of mason work is116 to 144 pounds. cubic foot of sand stone is148 pounds.
	cubic foot of slate is
	cubic foot of gravel is
	cable root of Braver is pounds.

1 cubic foot of cement is	pounds.
1 cubic foot of mud is	pounds.
1 cubic foot of common clay is	pounds.
1 cubic foot of clay and stone is160	-
1 cubic foot of glass is	
1 cubic foot of granite or marble is. 170 to 180	
1 cubic foot of limestone is	
1 square of lead is	
1 butt of sherry contains108	gallons.
1 pipe of port contains115	gallons.
1 pipe of teneriffe contains100	gallons.
1 butt of malaga contains105	gallons.
1 puncheon of Scotch whisky contains	
110 to 130	
1 puncheon of brandy contains110 to 120	
1 puncheon of rum contains100 to 110	_
	-
1 pipe of Maderia contains92	
1 hogshead of claret contains46	gallons.
A hogshead is one-half, a quarter-cask is on	e-fourth.
and an octavo is one-eighth of a pipe, but or pu	
David of P.Po, Nat of P.	

#### CLOTH MEASURE.

This measure was formerly used in buying and selling cloth, ribbons, etc. The standard yard and fractional parts thereof are now in general use in this country.

21/4	inches make	. 1	nai	l.
4	nails (9 inches) make	1	qua	rter.
4	quarters make			
3	quarters, or 27 inches, make	.1	Ell	Flemish.
5	quarters, or 45 inches, make	.1	Ell	English,
6	quarters, or 34 inches, make	.1	Ell	French.
3716	inches make	. 1	Ell	Scotch.

# FLUID MEASURE.

60 minims make	.1	drachm,
8 drachms make	.1	ounce.
16 ounces make	1	pint.
8 pints make	1	gallon.

#### ADVOIRDUPOIS MEASURE.

The standard Avoirdupois pound is of the weight 27.7015 cubic inches of distilled water weighed in air 39.83°, the barometer at thirty inches; one cubic inch of such water weighs 252.6937 grains, and one cubic foot weighs very nearly 1000 ounces.

All coarse articles of merchandise, such as hay, grain, chandler's ware, and all metals except gold and silver are weighed by this measure.

16	drams make1 ounce	e.
16	ounces make1 poun	d.
28	pounds make1 quart	ter.
100	pounds make1 cwt.	
20	hundred weight1 ton n	et.
112	pounds make1 cwt.	gross.
	pounds make1 ton g	
56	pounds make1 firkin	
100	pounds fish1 quints	al.
196	pounds make bbl. f	lour.
200	pounds make bbl. I	ork
	or be	ef.
14	pounds iron or lead	
21	½ stone make 1 b	ushel.
8	pigs make 1 b	ushel.
62	pounds fine salt 1 b	ushel.
	pounds common salt 1 fo	
	pounds coarse salt p	
	pounds = 1 cask lime.	
300	pounds = 1 cask cement.	
100	pounds make 1 cask of raisins.	
1	ounce Avoirdupois equals 18 pwt. 51/2 grs. Tr	oy, or
	437½ grains.	
1	pound Avoirdupois equals 14 ounces 11 pw	ts. 16
	grs. Troy, or 7000 grains.	

### CIRCULAR MEASURE.

Used in	measuring latitude and longitude.
60 seconds	make1 minute.
60 minutes	make1 degree.
30 degrees	make1 sign.
360 degrees	make 1 circle

#### CUBIC OR SOLID MEASURE.

Cubic	measure	is 1	used	for	measur	ring	stone,	timber,
earth, cap	pacity of	roc	ms,	ship	s, and	such	other	things
as have le	ength, br	eadt	th an	d th	ickness	3.		

as have length, breadth and thickness.	
1728 cubic inches make	l cubic foot.
27 cubic feet make	l cubic yard.
40 cubic feet of round timber	1 ton.
50 cubic feet of hewn timber	1 ton.
42 solid feet make	ton of shipping.
8 cord feet or	l cord wood.
128 cubic feet	l cord wood.
24% cubic feet of stone make	perch.

A cord of wood is a pile 4 feet high and 8 feet long. 1 cubic foot makes......four-fifths of a bushel.

64 cubic inches (2x4x8) make....1 brick.

16 cubic feet (2x2x4) make.....1 cord foot.

128 cubic feet (4x4x8) make..... 1 cord wood.

The weight of anthracite coal per cubic foot varies with the different qualities. Lackawanna coal weighs 48.89 pounds per cubic foot; Lehigh, 55.32 pounds. There are 45.8 cubic feet in a ton of Lackawanna, and 40.5 cubic feet in a ton of Lehigh.

- 1 ton of 6-inch granite paving will cover 1 superficial yard.
- 1 ton of 7-inch granite paving will cover 3½ superficial yards.
- 1 ton of 8-inch granite paving will cover 3 superficial yards.
- 1 ton of 9-inch granite paving will cover 2½ superficial vards.
- 1 ton of pebble paving will cover 4 to 4½ superficial vards.
- 1 ton of rag stone paving will cover 5 to  $5\frac{1}{2}$  superficial yards.

## SURVEYOR'S SQUARE MEASURE.

625 square links make 1 pole.
16 poles make1 square chain.
10 square chains make1 acre.
640 acres make1 square mile.
36 square miles (6 miles square) make 1 township.

#### DRY MEASURE.

Used to measure all dry articles, such as grain, coal, salt, fruit, etc.

2	pints make1	quart-67.2 cubic inches.
4	quarts make 1	gallon-268.8 cubic inches.
2	gallons make1	peck-537.6 cubic inches.
4	pecks make1	bushel-2150.4 cubic inches
36	bushels make1	chaldron of coal-57.25 cu-

bic ft. 4 bushels in England make 1 coom.

2 cooms in England make. . 1 quarter.

5 quarters in England make1 wey.

2 weys in England make ... 1 last.

The standard bushel of the United States is the Winchester bushel of England. It is a circular measure 18½ inches in diameter and 8 inches deep, and contains nearly 2150.42 cubic inches.

It contains 77.627413 Avoirdupois pounds of distilled water at its maximum density.

A gallon dry measure contains 268.8 cubic inches.

In purchasing anthracite coal 20 bushels are generally called a ton.

### SHOEMAKER'S MEASURE.

Number 1 is 4.125 inches in length, and every succeeding number is .333 of an inch. There are 28 numbers or divisions in two series of numbers, to-wit: 1 to 13 and 1 to 15.

### SURVEYOR'S LONG MEASURE.

Used by civil engineers, surveyors, etc.

The surveyors or Gunter's chain is generally used in surveying land. It is 66 feet or 4 poles in length and is divided into 100 links.

Engineers commonly use a chain or measuring tape 100 feet long.

7 92-100 inches make	1 link.
25 links make	1 rod.
4 rods or 100 links make	. 1 chain.
RA chains make	1 mile

# MISCELLANEOUS MEASURES.

WISCELLANEOUS WEASONES.
3 inches make 1 palm.
4 inches make 1 hand.
9 inches make1 span.
12 inches make 1 foot.
3.2809 inches make 1 metre.
18 inches make1 cubit.
28 inches make nearly1 sacred cubit.
28 inches make 1 pace.
3 feet make1 yard.
6 feet make1 fathom.
120 fathoms make1 cable.
3 feet make 1 pace.
A hair's breadth is .02083 or 1-48 part of an inch.
1 yard is .000568 of a mile.
1 inch is .0000158 of a mile.
LAND MEASURE OR SQUARE MEASURE.
Used in measuring surfaces.
144 sq. inches make
9 sq. feet make1 sq. yard.
30¼ sq. yards, 272¼ sq. inches, make1 sq. rod or perch.
40 sq. rods or perches make1 sq. rood.
4 sq. roods or 10 sq. chains make 1 acre.
640 acres make 1 sq. mile or section.
220x198 feet sq.or 43,560 sq. feet make. 1 acre.
36 sq. miles (6 miles sq.) make1 township.
LINEAR MEASURE OR MEASURES OF LENGTH.
Used in measuring distances where length only is
considered.
3 barleycorns or 12 lines make1 incn.
12 inches make 1 foot.
3 feet make1 yard.
5½ yards, or 16½ feet, make1 rod.
40 rods make 1 furlong.
8 furlongs make1 mile.
3 miles make 1 league.
69.77 statute, or 60 geographic miles 1 deg. on the equator.
000 2 12 1 0 0 11 12

The United states measure is a brass rod, which, at the temperature of 32 degrees, is a standard yard—3 feet or 36 inches.

360 degrees the circumference of the earth.

#### APOTHECARIES' MEASURE.

20 grains make	1 scrupie.
3 scruples make	1 drachm.
8 drachms make	1 ounce.
12 ounces make	1 pound.

#### ARCHITECTS' OR BUILDERS' MEASURE.

This measure is used in measuring surface painting, plastering brick work, shingles and other roofing, etc., or any surface having length or breadth.

#### ALE OR BEER MEASURE.

Milk, cider, vinegar and other cheap articles are sold in small quantities by this measure. Milk in many places is also sold by wine measure.

2	pints make1 quart.
4	quarts make1 gallon.
9	gallons make 1 firkin.
2	firkins or 18 gallons make 1 kilderkin.
2	kilderkins or 36 gallons make barrel.
14	barrels or 54 gallons make 1 hogshead.
14	hogsheads or 72 gallons make1 puncheon.
11	puncheons or 108 gallons make butt.

#### UNITY.

12 units make1	dozen.				
20 units make1	score.				
12 dozen make 1	gross.				
12 gross make1	great gross				

#### PAPER.

24 sheets	make	 1 quire.
101/2 quires	make	 1 token.
20 quires	make	 1 ream.
2 reams m	ake	 1 bundle.
5 bundles	make	1 hale

#### COPYING.

75 words	make1	folio sheet of	Common Law.
90 words	make	folio sheet of	Chancery.

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Antiquarian52	x 8	31	inches.
Emperor40	x (	60	inches.
	x12	20	inches.

#### STANDARD TIME.

Primarily, for the convenience of the railroads, a standard of time was established by mutual agreement in 1883, by which trains are run and local time regulated. According to this system, the United States, extending from 65° to 125° west longitude, is divided into four time sections, each of 15° of longitude, exactly equivalent to one hour, commencing with the 75th meridian. The first (eastern) section includes all territory between the Atlantic coast and an irregular line drawn from Detroit to Charleston, S. C., the latter being its most southern point. The second (central) section includes all the territory between the last-named line and an irregular line from Bismark, N. D., to the mouth of the Rio Grande. The third (mountain) section includes all territory between the last-named line and nearly the western borders of Idaho, Utah and Arizona. The fourth (Pacific) section covers the rest of the country to the Pacific coast. Standard time is uniform inside each of these sections, and the time of each section differs from that next to it by exactly one hour. Thus at 12 noon in New York City (eastern time), the time at Chicago (central time) is 11 o'clock a. m.; at Denver (mountain time), 10 o'clock a. m., and at San Francisco (Pacific time), 9 o'clock a. m. Standard time is 16 minutes slower at Boston than true local time, 4 minutes slower at New York, 8 minutes faster at Washington, 19 minutes faster at Charleston, 28 minutes slower at Detroit, 18 minutes faster at Kansas City, 10 minutes slower at Chicago, 1 minute faster at St. Louis, 28 minutes faster at Salt Lake City, and 10 minutes faster at San Francisco.

# PUNCTUATION MARKS AND RULES FOR USING THEM

The period [.] denotes the close of a sentence. A period is placed after every declarative and imperative sentence. All abbreviations are followed by period, also all numbers in the Roman notation.

The colon [:] is placed between the chief divisions of a sentence, when these are but slightly connected, and they are themselves divided by some other mark. A colon is used after a sentence which announces a distinct quotation, and is placed between clauses when the connection is so slight that any one of them might be a distinct sentence.

The semicolon [;] indicates a longer pause, and also divides compound sentences. A succession of clauses depending on one principal expression, should be separated by a semicolon; is also placed after an expression which introduces particulars. When a clause especially explains the meaning of some other expression, it is separated from that expression by a semicolon, and one is used to divide a sentence into sections, when the various parts are not sufficiently independent to require a colon.

The comma [,] denotes a slight pause, and divides a sentence into its component parts. A comma is placed between the particulars mentioned in a succession of words all in the same construction, one is placed between each pair of words, when each pair is in the same construction, also before and one after every parenthetical expression, and is used before a quotation closely connected with the preceding words. Expressions re-

peated must be separated by a comma, as must also a phrase or clause which explains, in any degree, the meaning of any other phrase or clause. All modifying expressions, unless closely connected with the rest of the sentence, are separated by a comma. A comma must be used in sentences which would otherwise be misunderstood, and placed where a word is understood, unless the connection is close.

The interrogation point [?] is placed after every sentence which denotes a direct question, and after each successive particular of a series of questions related in sense but distinctive in construction.

The exclamation point [!] denotes wonder or astonishment. An exclamation point is placed after every exclamatory sentence, clause, phrase or word. Where special emphasis is required, several exclamation points may be used. An exclamation point, enclosed in parentheses, is used to denote peculiar surprise. Most interfections take an exclamation point after them.

The dash [—] indicates a sudden change of subject. A sudden turn in a sentence is shown by a dash. An omission of the middle numbers in a regular series, or of a word, or part of a word, is denoted by a dash, one is usually placed before the answer to a question, when they both belong to the same line, and is often used instead of the parenthesis marks; it is also commonly used before an expression repeated for special emphasis, and always follows the sentence which introduces a quotation, when the quotation commences a new paragraph. A dash is often used to avoid too many paragraphs.

Quotation marks [""] indicate a verbatim quotation. Every quoted passage is enclosed in quotation marks. Quotations consisting of more than one paragraph have the first quotation mark at the beginning of each paragraph, but the second is used only at the end of the last paragraph. When a quoted passage requires special attention, the first quotation mark may be used at the commencement of each line. When one quotation includes another, the latter has but half the first quotation mark before it, and half the second mark after it.

The stars [\*  $_{*}$  \*] or N. B. are used to invite special attention.

The brace [ connects several words with one common term.

The paragraph [¶] begins a new subject.

The section [§] is used to subdivide chapters.

The asterisk [\*], parallels [||], dagger [†], double dagger [‡] and section [§] are used as marginal reference marks.

The commercial a [@] is used in market quotations, and signifies "at" or "to."

The signs [#] and ib means "per" and "pound," respectively.

The parentheses [()] include something not essential to the sense.

The ellipsis [\*\*\*] [-----] denotes the omission of letters or words.

The index [ points to something of special significance.

Brackets [] are chiefly used to denote corrections.

The hyphen [-] connects the syllables or parts of a word.

The caret [ A ] denotes that some letter, word or phrase has been omitted.

The apostrophe denotes a contraction.

# RULES FOR THE USE OF CAPITALS.

Most words commence with small letters. Capitals must be used only when required by the following rules:

The first word of every sentence and the first word of every line of poetry should begin with a capital letter.

All proper names should begin with capital letters. Words derived from proper names begin with a capital.

Every word that denotes the Deity should begin with a capital.

Pronouns relating to the Deity should generally commence with a capital.

The months of the years and the days of the week begin with capitals.

The words North, South, East, West, and their compounds and abbreviations, as North-West, commence with capitals when they denote a section of country.

The pronoun I, and the interjection O, are always capitals.

Every direct quotation should begin with a capital letter.

All titles of persons begin with capitals.

All the principal words in the titles of books should begin with capital letters.

The several chapters or other divisions of any book begin with capitals.

Common nouns personified begin with capital letters.

Any word particularly important may begin with a capital letter.

All words denoting religious denominations begin with capital letters.

In all kinds of advertisements nearly all the leading words usually begin with capitals.

In accounts each article mentioned should begin with a capital.

#### RULES FOR SPELLING.

Words ending in e drop that letter before the termination able, as in move, movable; unless ending in ce or ge, when it is retained, as in change, changeable, etc.

Words of one syllable ending in a consonant, with a single vowel before it, double that consonant in derivatives; as ship, shipping, etc. But if ending in a consonant with a double vowel before it, they do not double the consonant in derivatives; as troop, trooper, etc.

Words of more than one syllable, ending in a consonant preceded by a single vowel, and accented on the last syllable, double that consonant in derivatives; as commit, committed, but except chagrin, chagrined.

All words of one syllable ending in l, with a single vowel before it, have ll at the close; as mill, sell.

All words of one syllable ending in l, with a double vowel before it, have only one l at the close; as mail, sail.

The words foretell, distill, instill and fulfill, retain the double *l* of their primitives. Derivatives, of dull, skill, will, and full, also retail the *ll* when the accent falls on these words; as dullness, skillful, willful, fullness.

Words of more than one syllable ending in 1 have only one 1 at the close; as delightful, faithful; unless the accent falls on the last syllable, as in befall, etc.

Words ending in l. double that letter in the termination ly.

Participles ending in ing, from verbs ending in e, lose the final e; as have, having; make, making, etc., but verbs ending in ee retain both, as see, seeing. The word dye, to color, however, must retain the e before ing.

All verbs ending in ly, and nouns ending in ment, retain the e final of the primitives; as brave, bravely; refine, refinement; except words ending in dge; as acknowledge, acknowledgment.

Nouns ending in y, preceded by a vowel, form their plural by adding s; as money, moneys; but if y is preceded by a consonant, it is changed to ies in the plural; as bounty, bounties.

Compound words whose primitives end in y, change the y into i; as beauty, beautiful,

# TABLES OF USE IN PRINTING

# LEADS AND SLUGS.

Leads are designated as "-to-Pica." the number being that fraction of a Pica which the lead is, viz.: a 6-to-Pica lead is one-sixth of a Pica in thickness, or six, 6-to-Pica's, are equal to one Pica; four, 4-to-Pica's, are equal to one Pica, and so with other sizes or thickness of leads.

Slugs.-Leads of Nonpareil thickness and greater are called slugs, viz.: Nonpareil slugs, pica slugs, etc.

### RULE FOR ESTIMATING BODY TYPE.

To estimate the quantity of type (solid) necessary to fill a given space, multiply the number of square inches by 5% (estimated weight in ounces, of one square inch of matter, including sorts in case), divide the product by 16 and the result will be the weight of type required. If leaded, a reduction in weight of type may be made from above.

Another rule is as follows: To ascertain the quaditity of type (solid) required for newspaper or book work, find the number or square inches to be set, and divide the same by 4, which will give the approximate weight of matter; to which 25 per cent should be added for "sorts," or dead letters remaining in the case. If the matter is to be leaded the weight may be reduced one-quarter.

# PROOF-READING

There is considerable latitude in the use of proof-readers' marks and in methods of marking. Figure I shows the uncorrected proof as it goes to the reader for correction. Figure II gives an illustration of the proof marked and ready for marking. It is not to be assumed that there are ever as many errors as are here indicated, in ordinary matter. Matter set on the linotype from clear copy may not have but two or three minor errors. If hand setting is employed, there are generally more errors, depending much upon the character of the copy. For a concise treatment on marks the reader is referred to the title "Marks Used in Proof-Reading."

Referring to the numbered lines in Figure II, the following are the operations to be performed to correct

the proof as marked:

Line 1. Bring the heading to the center; set in caps. Set name "Thomas Carlyle" in italics.

Line 2. Indent paragraph; delete apostrophe; set name "Burns" in small caps. Make cap W lower case; insert y in place of marked letters.

Line 3. Turn inverted 1.

Line 4. Transpose indicated words; raise marked word to line with the rest; insert ed at end of line; turn hyphen.

Line 5. Delete d; transpose letters indicated.

Line 6. Insert u as indicated. Rearrange spacing for line as indicated by carets; insert hyphen at end of line.

Line 7. Clean.

Line 8. Insert o in place of letter marked. Insert o in place of inverted marked letter.

Essay on Burn's —Tuce Carlisle.

Burn's first came upon the World as a prodigee, and
was, in that character, entertained by it, in the usual
fashion, with vague, loud, tumultuous wonder, spedily sub-iding into seneure and neglect. Itil his early
and most mornful death again awakened an enthu
siasm for him, which, especially as there was now
nuthing to be done, and much to be specen, has
prologed itself even to our own time.

it is true, the 9 days have long since elapsed, and the very continuance of this clamour proves that Rurns was no vulgur wonder. Accordingly, He has come to rest more & more exclusively on his own I strinsic merits, ane may now be wellnigh shorn of that casual radiance he appears not only as a true English poet, but as one of the most considerable British men of the 18th century. Let it not be objected that the did little. He did very much, if we

consider how where and we must recollect that he had his every materials to discover; fore the for the metal he Worked in lay hid under the dsert, whre no eye but his has guesst its existence; and we may almost say that with his own hands he had to construct the tools for fashioning it For he found himself in deepest security - withou help, instruction, without model, or with model only of the meanest sort An educated man stands, as it were, in the midst of a boundless arsenal and mugszine, filled with all the weapon sahd engines which ans' skill has been able to devize from the earliest rowed from all Past ages How different in his state time, and he works, accordingly with a strength borwho stands on the outsid of that storehouse, and feels that its gates must be stormed, or remain forever shut against him? \* \* \* a dwarf back his steamegene may remove mountains, but no dwarf will hue them down with a pickax, and he must be a Titan who hurls them abroad with his arms

### Fig. I

Lines 9 and 10. Insert n as indicated by caret. Insert period in place of marked comma; run in line 10. Capitalize i; spell out (sp.) 9. Insert quotation marks as indicated by carets.

Line 11. Clean.

Line 12. Insert cap B and lower case a, as indicated. Insert from copy omitted words as indicated by caret; change H to lower case.

Line 13. Broken letter; spell out &.

Line 14. Broken letter; change e to d. Delete l and insert hyphen.

Line 15. Insert comma.

Line 16. Delete word marked, inserting word on

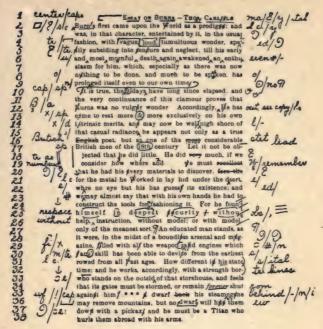


Fig. II

margin. Let most stand, it was wrongly marked out.

Line 17. Spell out ringed word. Insert lead above the line.

Line 18. Delete marked word.

Line 19. Transpose words in order numbered; bring this line and line above to margin. Change marked letter to cap W; change marked word to word on margin.

Line 20. Turn marked letter; delete e. Delete marked words.

Line 21. Make cap W lower case. Insert e as indicated by caret.

Line 22. Insert e as marked. Insert ed as marked.

Line 23. Insert space as indicated by caret.

Line 24. Push down space.

Line 25. Respace marked words. Insert obs as marked; change marked dash to comma; align final letter of this and preceding and following line.

Line 26. Insert word on margin as indicated by caret.

Line 27. Make new paragraph as indicated.

Line 28. Turn marked letters.

Line 29. Set ft as a logotype; change broken letter. Bring s to left, inserting space after it; change h to n.

Line 30. Change n to m; transpose ringed characters. Change z to s.

Line 31. Change cap P to lower case. Change n to s: italicize his.

Line 32. Push down lead. Transpose lines 32 and 31.

Line 33. Insert e in place of caret.

Line 34. Change italicized word to roman.

Line 35. Wrong font s to be changed; interrogation mark to be changed to exclamation point; change lower case a to cap. Change marked word to margin word: insert hyphen, n and i as indicated.

Line 36. Straighten line. Change spelling of hue. as indicated in margin.

Line 37. Turn n; insert e as marked.

Line 38. Clean.

# MARKS USED IN PROOF-READING

Jor & tr. C,70 X

Take out; delete. This character is variously made, these forms being common. Space; more space;—often used in conjunction with the caret.

Push down;—designating a space or quad which shows black.

Turn inverted letter or character so as to show correct.

Let the matter stand; do not change;—stet is placed in the margin.

Transpose letters, characters, leads, lines or other matter indicated.

Bring to left or right, toward face of bracket;—if with center, bring to center.

Indent line one em of type of its own

measure.

Take out broken, worn or disfigured letter or character.

Insert period; —often called "proof-reader's
 period," used in writing for distinctness.

Close up letters, parts of words or other open space.

Bring matter up or down so as to present a straight line or lines.

Bring matter to right or left so as to make margin even.

Bring matter up or down, whichever way face of bracket is turned.

Letter or character indicated is "wrong font"; supply one of right font.

Abbreviation for *italic*; change to italic. The abbreviation for roman is rom.

Change indicated letter, word or other matter to lower case.

Change to italic, small capitals and capitals respectively, denoted by number of lines.

Indent so as to make paragraph; begin new paragraph.

Set as a logotype instead of in two or more letters.

# GEOGRAPHICAL TABLES

# Population of Incorporated Places; Census of 1900 One Hundred Largest Cities

New York, N. Y3 Chicago, Ill1 Philadelphia, Pa1	.437,202		Wilmington, Del	76.508
Chicago, Ill.	698.575		Camden, N. J	75,935
Philadelphia Pa	293 697		Trenton, N. J	73,307
St. Louis, Mo	575,238		Troy, N. Y.	75.057
Boston, Mass	560,892		Bridgeport, Ct	70,996
Baltimore, Md	508,957		Lynn, Mass	68,513
Cleveland, Ohio	381,768		Oakland, Cal	66,960
Buffalo, N. Y	352,387		Lawrence, Mass	62,559
San Francisco, Cal	342,782		New Bedford, Mass	62,442
Cincinnati, Ohio	325,902		Des Moines, Iowa	62.139
Pittsburg, Pa	321,616		Springfield, Mass	62,059
New Orleans, La	287,104		Somerville, Mass	61,643
Detroit. Mich	285,704		Hoboken N J	59,364
Milwaukee, Wis	285,315		Hoboken, N. J Evansville, Ind	59.007
Washington D C	278,718		Manchester, N. H	56,987
Washington, D. C	046 070			50,301
Newark, N. J	246,070		Utica, N. Y	56,383
Jersey City, N. J	206,433		Peoria, Ill	56,100
Louisville, Ky	204,731		Charleston, S. C	55,807
Minneapolis, Minn	202,718		Savannah, Ga	54,244
Providence, R. I	175,597		Salt Lake City, Utah	53,531
Indianapolis, Ind	169.164		San Antonio, Tex	53,321
Kansas City, Mo	163,752		Duluth Minn	52,969
St. Paul, Minn	163,065		Erie, Pa	52,733
Rochester, N. Y	162,608		Elizabeth, N. J	52,130
	133,859			51,721
Denver, Col			Wilkes-Barre, Pa	
Toledo, Ohio	131,822	-	Kansas City, Kan	51,418
Allegheny, Pa	129,896		Harrisburg, Pa	50,167
Columbus, Ohio Worcester, Mass Syracuse, N. Y	125,560		Portland, Me Yonkers, N. Y Norfolk, Va	50,145
Worcester, Mass	118,421		Yonkers, N. Y	47,931
Syracuse, N. Y	108,374		Norfolk, Va	46,624
New Haven, Ct	108,027		Waterbury, Ct	45.859
Paterson, N. J	105,171		Holyoke, Mass	45,712
Fall River, Mass	104,863		Fort Wayne, Ind	45,115
St. Joseph, Mo	102,979		Youngstown, Ohio	44,885
Omaha. Neb	102,555		Houston, Tex	44.633
Los Angeles, Cal	102,479			42,938
			Covington, Ky	
Memphis, Tenn	102,320		Akron, Ohio	42,728
Scranton, Pa	102,026		Dallas, Tex	42,638
Lowell, Mass	94,969		Saginaw, Mich	42,345
Albany, N. Y	94,151		Lancaster, Pa	41,459
Cambridge, Mass	91,886		Lincoln. Neb	40.169
Portland, Ore	90,426		Brockton, Mass	40,063
Atlanta, Ga	89,872		Binghamton, N. Y	39,647
Grand Rapids, Mich.	87,565		Augusta, Ga	39.441
Dayton, Ohio	85,333		Honolulu, Hawaii	39,306
	85,050			
Richmond, Va			Pawtucket, R. I	39,231
Nashville, Tenn	80,865		Altoona, Pa	38,973
Seattle, Wash	80,671		wheeling, W. Va	38,878
Hartford, Ct	79,850		Mobile, Ala	38,469
Reading, Pa	78,961		Birmingham, Ala	38,415

# Incorporation Places Having 5,000 Inhabitants or More

Adrian, Mich	9.654	Bayonne, N. J	32,722
Akron, Ohio	42,728	Beatrice, Neb	7,875
Alameda, Cal	16,464	Beaumont, Tex	9,427
Albany N V	94,151	Beaverdam, Wis	5.128
Albany, N. Y Albert Lea, Minn	5.028	Beaver Falls, Pa	10.054
Albuquerence N. M.			
Albuquerque, N. M	6,238 $7,221$	Bedford, Ind	6,115
Alexandria, Ind		Bellaire, Ohio	9,912
Alexandria, Va	5,648	Bellefontaine, Ohio	6,649
Alexandria, Va	14,528	Belleville, Ill	17,484
Allegheny, Pa	129,896	Bellevue, Ky	6,332
Allentown, Pa	35,416	Beloit, Wis	10,436
Alliance, Ohio	8,974	Belvidere, N. J Bennington, Vt	6,937
Alliance, Ohio Alpena, Mich	11,802	Bennington, Vt	5,656
Alton, Ill	14,210	Benton Harbor, Mich	6,562
Altoona, Pa	38,973	Berkeley, Cal	13.214
Americus, Ga	7,674	Berlin, N. H	8.886
Amsterdam, N. Y	20,929	Bessemer, Ala	6,358
Anaconda, Mont	9,453	Bethlehem, Pa	7,293
Anaconda, Mont Anderson, Ind	20,178	Beverly, Mass	13,884
Anderson, S. C	5,498	Biddeford, Me	16,145
Annapolis, Md	8,525	Biloxi, Miss	5,467
Ann Arbor, Mich	14,509	Binghamton, N. Y	39,647
Anniston, Ala	9,695	Birmingham, Ala	38,415
Angonia Ct	12,681	Ploomfold N I	9.668
Ansonia, Ct Antigo, Wis	5,145	Bloomfield, N. J Bloomington, Ill	23,386
Appleton Wis	15.085	Placemington, In	
Appleton, Wis		Bloomington, Ind Bloomsburg, Pa	6,460
Appleton, Wis Archbald, Pa Ardmore, I. T	5,396	Bloomsburg, Pa	6,170
Ardmore, I. T	5,681	Blue Island, Ill	6,114
Argentine, Kan	5,878	Boise, Idaho	5,957
Arkansas City, Kan. Asheville, N. C	6,140	Bonham, Tex	5,042
Asheville, N. C	14,694	Boone, Iowa	8,880
Ashland, Ky	6,800	Boston, Mass	560,892
Ashland, Pa	6,438	Boulder, Col	6,150
Ashland, Pa Ashland, Wis	13,074	Bowling Green, Ky	8,226
Ashtabula, Ohio	12,949	Bowling Green, O	5,067
Astoria, Ore	8,381	Braddock, Pa	15,654
Atchison, Kan	15,722	Bradford, Pa	15,029
Athens, Ga	10,245	Bradford, Pa Brainerd, Minn	7,524
Atlanta, Ga	89,872	Brattleboro, Vt	5,297
Atlantic City, Iowa.	5,046	Brazil, Ind	7,786
Atlantic City, Iowa. Atlantic City, N. J	27,838	Brenham, Tex	5,968
Auburn, Me	12,951	Bridgeport, Ct	70,996
Auburn, N. Y	30,345	Bridgeport, Ct Bridgeton, N. J	13,913
Augusta Ga	39,441	Bristol, Ct	6,268
Augusta, Ga Augusta, Me	11,683	Bristol, Pa	7,104
Aurora III	24.147	Bristol, Tenn	5,271
Aurora, Ill	6,191	Brockton, Mass	40,063
Augtin Minn	5,474	Brookfield, Mo	5,484
Austin, Minn Austin, Tex	22,258		6,305
Delson City Ore		Brownsville, Tex	
Baker City, Ore Baltimore, Md	6,663	Brunswick, Ga Brunswick, Me	9,081
Baltimore, Mu	508,957	Brunswick, Me	5,210
Bangor, Me	21,850	Bucyrus, Ohio Buffalo, N. Y	6,560
Baraboo, Wis	5,751	Bunalo, N. Y	352,387
Barre, Vt Batavia, N. Y	8,448	Burlington, Iowa Burlington, N. J	23,201
Batavia, N. Y	9,180	Burlington, N. J	7,392
Bath, Me	10,477	Burlington, Vt	18,640
Baton Rouge, La	11,269	Butler, Pa Butte, Mont	10,853
Battle Creek, Mich	18,563	Butte, Mont	30,470
Bay City, Mich	27,628	Cadillac, Mich	5,997

# Incorporated Places Having 5,000 Inhabitants or More Continued

Cariro, Ill.         12,566         Columbus, Ohio         125,560           Calais, Me.         7,665         Concord, N. H.         19,632           Cambridge, Md.         5,747         Concord, N. C.         7,910           Cambridge, Ohio         8,241         Connellsville, Pa.         7,130           Camden, N. J.         75,935         Connersville, Ind.         6,836           Canal Dover, Ohio.         6,422         Conshohocken, Pa.         5,762           Canaton, Ohio.         30,667         Corris, Pa.         5,369           Canton, Ohio.         30,667         Corriscana, Tex.         9,313           Carbondale, Pa.         13,536         Cortland, N. Y.         9,014           Carriage, Pa.         7,330         Council Bluffs, Iowa         25,802           Carthage, Mo.         9,416         Covington, Ky.         42,938           Catskill, N. Y.         5,484         Crawfordsville, Ind.         6,649           Central Falls, Iowa         5,266         Cripple Creek, Col.         10,147           Central Falls, R. I.         18,167         Cumberland, Md.         17,128           Central Falls, R. I.         8,042         Danbury, Ct.         16,535           Charleston, S. C.         <				
Cambridge, Mass. 91,886 Connelaut, Ohio 7,133 Cambridge, Ohio 8,241 Connellsville, Pa. 7,160 Camden, N. J. 75,935 Connersville, Ind. 6,836 Canal Dover, Ohio 5,422 Conshohocken, Pa. 5,762 Cannon, Ill. 6,564 Corry, Pa. 5,369 Canton, Ohio 30,667 Corsicana, Tex. 9,313 Carbondale, Pa. 13,536 Cortland, N. Y. 9,014 Carlisle, Pa. 9,626 Coshocton, Ohio 6,473 Carnegie, Pa. 7,330 Council Bluffs, Iowa 25,802 Catskill, N. Y. 5,484 Crawfordsville, Ind. 6,649 Cedar Rapids, Iowa 25,666 Cripple Creek, Col. 10,147 Centreville, Iowa 5,256 Cropple Creek, Col. 10,147 Centralia, Ill. 6,721 Dallas, Tex. 42,638 Champaign, Ill. 9,998 Danville, Pa. 8,642 Charleston, Ill. 5,488 Danville, Pa. 8,042 Charleston, Ill. 5,489 Danville, Pa. 8,042 Charleston, W. V. 11,099 Dayton, Ky. 6,104 Charlotte, N. C. 18,091 Dayton, Ohio 85,333 Charlottesville, Va. 6,449 Decatur, Ill. 20,754 Chester, Pa. 33,988 Denison, Tex. 11,897 Cheboygan, Mich. 6,489 De Kalb, Ill. 5,904 Chester, Pa. 33,988 Denison, Tex. 11,897 Cheboygan, Mich. 6,489 De Kalb, Ill. 5,904 Chester, Pa. 33,988 Denison, Tex. 11,897 Cheboygan, Mich. 6,499 De Chester, Pa. 33,988 Denison, Tex. 11,897 Chicago, Ill. 1,698,575 Des Moines, Iowa 36,297 Chester, Pa. 5,810 Dubude, Ill. 7,917 Chippewa Falls, Wis Solution, Iowa 22,698 Dupuesne, Pa. 9,375 Clarksville, Pa. 5,721 East Liverpool, Ohio 12,976 Chester, Pa. 5,721 East Liverpool, Ohio 6,485 Columbia, Pa. 12,316 East On, Pa. 12,316 Columbia, Tenn. 6,662 Elgin, Ill. 22,433 Columbus, Ind. 8,130 Elizabeth, N. C. 8,348 Columbus, Ind. 8,130 Elizabeth, N. C. 8,348 Columbus, Ind. 8,130 Elizabeth, N. C. 8,348 Columbus, Ind. 8,130 Elizabeth, N. C. 8,638	Cairo, Ill	12,566	Columbus, Ohio	125,560
Cambridge, Mass. 91,886 Connelaut, Ohio 7,133 Cambridge, Ohio 8,241 Connellsville, Pa. 7,160 Camden, N. J. 75,935 Connersville, Ind. 6,836 Canal Dover, Ohio 5,422 Conshohocken, Pa. 5,762 Cannon, Ill. 6,564 Corry, Pa. 5,369 Canton, Ohio 30,667 Corsicana, Tex. 9,313 Carbondale, Pa. 13,536 Cortland, N. Y. 9,014 Carlisle, Pa. 9,626 Coshocton, Ohio 6,473 Carnegie, Pa. 7,330 Council Bluffs, Iowa 25,802 Catskill, N. Y. 5,484 Crawfordsville, Ind. 6,649 Cedar Rapids, Iowa 25,666 Cripple Creek, Col. 10,147 Centreville, Iowa 5,256 Cropple Creek, Col. 10,147 Centralia, Ill. 6,721 Dallas, Tex. 42,638 Champaign, Ill. 9,998 Danville, Pa. 8,642 Charleston, Ill. 5,488 Danville, Pa. 8,042 Charleston, Ill. 5,489 Danville, Pa. 8,042 Charleston, W. V. 11,099 Dayton, Ky. 6,104 Charlotte, N. C. 18,091 Dayton, Ohio 85,333 Charlottesville, Va. 6,449 Decatur, Ill. 20,754 Chester, Pa. 33,988 Denison, Tex. 11,897 Cheboygan, Mich. 6,489 De Kalb, Ill. 5,904 Chester, Pa. 33,988 Denison, Tex. 11,897 Cheboygan, Mich. 6,489 De Kalb, Ill. 5,904 Chester, Pa. 33,988 Denison, Tex. 11,897 Cheboygan, Mich. 6,499 De Chester, Pa. 33,988 Denison, Tex. 11,897 Chicago, Ill. 1,698,575 Des Moines, Iowa 36,297 Chester, Pa. 5,810 Dubude, Ill. 7,917 Chippewa Falls, Wis Solution, Iowa 22,698 Dupuesne, Pa. 9,375 Clarksville, Pa. 5,721 East Liverpool, Ohio 12,976 Chester, Pa. 5,721 East Liverpool, Ohio 6,485 Columbia, Pa. 12,316 East On, Pa. 12,316 Columbia, Tenn. 6,662 Elgin, Ill. 22,433 Columbus, Ind. 8,130 Elizabeth, N. C. 8,348 Columbus, Ind. 8,130 Elizabeth, N. C. 8,348 Columbus, Ind. 8,130 Elizabeth, N. C. 8,348 Columbus, Ind. 8,130 Elizabeth, N. C. 8,638	Calais. Me		Concord. N. H	
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Canton, Ill. 6,564 Canton, Ohio 30,667 Carbondale, Pa. 13,536 Carlaisie, Pa. 9,626 Carlaisie, Pa. 7,330 Carlaisie, Pa. 7,330 Carthage, Mo. 9,416 Carlaise, Pa. 7,330 Carthage, Mo. 9,416 Covington, Ky. 42,938 Catskill, N. Y. 5,484 Cedar Falls, Iowa 5,319 Creston, Iowa 7,752 Cedar Rapids, Iowa 5,319 Centreville, Iowa 5,2566 Central Falls, R. I. 18,167 Centreville, Iowa 6,256 Central Falls, R. I. 18,167 Centreville, Iowa 6,256 Central Falls, R. I. 18,167 Centrelia, Ill. 6,721 Campaign, Ill. 9,998 Danville, Ill. 16,537 Champaign, Ill. 9,998 Danville, Ill. 16,534 Charleston, Ill. 5,488 Charleston, S. C. 55,807 Charleston, W. Va 11,099 Dayton, Ky. 6,104 Charlotte, N. C. 18,091 Charlotte, N. C. 18,091 Charlotte, Va. 6,449 Charlotte, Va. 6,449 Charlotte, Va. 6,449 Charlotte, Va. 6,489 Chester, Pa. 33,988 Chester, Pa. 33,988 Cheyenne, Wyo. 14,087 Cheboygan, Mich. 6,489 Chester, Pa. 33,988 Chicago, Ill. 1,698,575 Chicago Heights, Ill. 5,100 Chillicothe, Mo. 6,695 Chillicothe, Ohio 12,976 Chillicothe, Ohio 12,976 Chillicothe, Ohio 381,768 Clinton, Iowa 22,698 Clinton, Mo. 5,661 Columbia, Pa. 12,316 Columbia, C. 21,108 Columbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clinton, J. 22,433 Columbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clinton, J. 22,433 Columbus, Idl. 8,130 Clinton, J. 22,433 Columbus, Idl. 8,130 Clinton, J. 22,433 Columbus, Idl. 8,130	Canal Dover, Onio		Conshohocken, Pa	5,762
Canton, Ill. 6,564 Canton, Ohio 30,667 Carbondale, Pa. 13,536 Carlaisie, Pa. 9,626 Carlaisie, Pa. 7,330 Carlaisie, Pa. 7,330 Carthage, Mo. 9,416 Carlaise, Pa. 7,330 Carthage, Mo. 9,416 Covington, Ky. 42,938 Catskill, N. Y. 5,484 Cedar Falls, Iowa 5,319 Creston, Iowa 7,752 Cedar Rapids, Iowa 5,319 Centreville, Iowa 5,2566 Central Falls, R. I. 18,167 Centreville, Iowa 6,256 Central Falls, R. I. 18,167 Centreville, Iowa 6,256 Central Falls, R. I. 18,167 Centrelia, Ill. 6,721 Campaign, Ill. 9,998 Danville, Ill. 16,537 Champaign, Ill. 9,998 Danville, Ill. 16,534 Charleston, Ill. 5,488 Charleston, S. C. 55,807 Charleston, W. Va 11,099 Dayton, Ky. 6,104 Charlotte, N. C. 18,091 Charlotte, N. C. 18,091 Charlotte, Va. 6,449 Charlotte, Va. 6,449 Charlotte, Va. 6,449 Charlotte, Va. 6,489 Chester, Pa. 33,988 Chester, Pa. 33,988 Cheyenne, Wyo. 14,087 Cheboygan, Mich. 6,489 Chester, Pa. 33,988 Chicago, Ill. 1,698,575 Chicago Heights, Ill. 5,100 Chillicothe, Mo. 6,695 Chillicothe, Ohio 12,976 Chillicothe, Ohio 12,976 Chillicothe, Ohio 381,768 Clinton, Iowa 22,698 Clinton, Mo. 5,661 Columbia, Pa. 12,316 Columbia, C. 21,108 Columbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clinton, J. 22,433 Columbus, Idl. 8,130 Clolumbus, Idl. 8,130 Clinton, J. 22,433 Columbus, Idl. 8,130 Clinton, J. 22,433 Columbus, Idl. 8,130 Clinton, J. 22,433 Columbus, Idl. 8,130	Canadaigua, N. Y		Corning, N. Y	11,061
Canton, Ohio	Canton, Ill	6,564	Corry, Pa.	5,369
Carlisle, Pa.         9,626         Coshocton, Ohio         6,473           Carnegie, Pa.         7,330         Council Bluffs, Iowa         25,802           Carthage, Mo.         9,416         Covington, Ky.         42,938           Catskill, N. Y.         5,484         Crawfordsville, Ind.         6,649           Cedar Falis, Iowa         5,519         Creston, Iowa         7,752           Cedar Rapids, Iowa         25,656         Cripple Creek, Col.         10,147           Centreville, Iowa         5,256         Crookston, Mich.         5,359           Central Falls, R. I.         18,167         Cumberland, Md.         17,128           Centralia, Ill.         6,221         Dallas, Tex.         42,638           Chambersburg, Pa.         8,864         Danbuille, Pa.         42,638           Charleston, Ill.         5,488         Danville, Pa.         8,042           Charleston, J. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, Mich.	Canton, Ohio	30,667	Corsicana, Tex	9.313
Carlisle, Pa.         9,626         Coshocton, Ohio         6,473           Carnegie, Pa.         7,330         Council Bluffs, Iowa         25,802           Carthage, Mo.         9,416         Covington, Ky.         42,938           Catskill, N. Y.         5,484         Crawfordsville, Ind.         6,649           Cedar Falis, Iowa         5,519         Creston, Iowa         7,752           Cedar Rapids, Iowa         25,656         Cripple Creek, Col.         10,147           Centreville, Iowa         5,256         Crookston, Mich.         5,359           Central Falls, R. I.         18,167         Cumberland, Md.         17,128           Centralia, Ill.         6,221         Dallas, Tex.         42,638           Chambersburg, Pa.         8,864         Danbuille, Pa.         42,638           Charleston, Ill.         5,488         Danville, Pa.         8,042           Charleston, J. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, Mich.	Carbondale. Pa	13.536	Cortland N. V	
Carnegie, Pa.         7,330         Council Bluffs, Iowa         25,802           Catskill, N. Y.         5,484         Crovington, Ky.         42,938           Cedar Falis, Iowa         5,819         Creston, Iowa         7,752           Cedar Rapids, Iowa         5,856         Cripple Creek, Col.         10,147           Centreville, Iowa         5,556         Crookston, Mich         5,359           Central Falls, R. I.         18,167         Cumberland, Md         17,128           Centralia, Ill.         6,721         Dallas, Tex         42,638           Chambersburg, Pa.         8,864         Danbury, Ct         16,537           Chamleston, Ill.         5,438         Danville, Ill.         16,520           Charleston, S. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charlottesville, Va.         6,449         Decatur, Ill.         20,754           Chattanooga, Tenn         30,154         Defance, Ohio         7,579           Cheboygan, Mich.         6,489         De Kalb, Ill.         19,07           Cheyenne, Wyo.         14,087         Derby, Ct.         7,930           Chicopee, Mass.         19,1	Carlisle Pa		Coshocton Ohio	
Carthage, Mo	Carnegia Pa		Council Pluffe Town	
Cedar Falis, Iowa         5,319         Creston, Iowa         7,752           Cedar Rapids, Iowa         5,556         Cripple Creek, Col.         10,147           Centreville, Iowa         5,256         Crookston, Mich         5,359           Central Falls, R. I.         18,167         Cumberland, Md         17,128           Chambersburg, Pa         8,864         Danbury, Ct         16,537           Chambersburg, Pa         8,864         Danbury, Ct         16,537           Charleston, Ill         5,488         Danville, Pa         8,042           Charleston, S. C         55,807         Davenport, Iowa         35,254           Charleston, W. Va         11,099         Dayton, Ky         6,104           Charlottesville, Va         6,449         Decatur, Ill         20,754           Chattanooga, Tenn         30,154         Defiance, Ohio         7,579           Cheboygan, Mich         6,489         De Kalb, Ill         5,904           Chester, Pa         33,988         Denion, Tex         11,807           Cheyenne, Wyo         14,087         Derby, Ct         7,930           Chicago Heights, Ill         5,000         De Soto, Mo         5,611           Chilicothe, Mo         6,695         Detr	Canthogo Mo		Covington Va	
Cedar Falis, Iowa         5,319         Creston, Iowa         7,752           Cedar Rapids, Iowa         5,556         Cripple Creek, Col.         10,147           Centreville, Iowa         5,256         Crookston, Mich         5,359           Central Falls, R. I.         18,167         Cumberland, Md         17,128           Chambersburg, Pa         8,864         Danbury, Ct         16,537           Chambersburg, Pa         8,864         Danbury, Ct         16,537           Charleston, Ill         5,488         Danville, Pa         8,042           Charleston, S. C         55,807         Davenport, Iowa         35,254           Charleston, W. Va         11,099         Dayton, Ky         6,104           Charlottesville, Va         6,449         Decatur, Ill         20,754           Chattanooga, Tenn         30,154         Defiance, Ohio         7,579           Cheboygan, Mich         6,489         De Kalb, Ill         5,904           Chester, Pa         33,988         Denion, Tex         11,807           Cheyenne, Wyo         14,087         Derby, Ct         7,930           Chicago Heights, Ill         5,000         De Soto, Mo         5,611           Chilicothe, Mo         6,695         Detr	Carthage, Mo		Covington, Ry.	
Cedar Rapids, Iowa.         25,856         Cripple Creek, Col.         10,147           Centreville, Iowa.         5,256         Crookston, Mich.         5,359           Central Falls, R. I.         18,167         Cumberland, Md.         17,128           Charlestola, Ill.         6,721         Dallas, Tex.         42,638           Champaign, Ill.         9,098         Danville, Ill.         16,537           Charleston, Ill.         5,488         Danville, Pa.         8,042           Charleston, S. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ohio         85,333           Charlottesville, Va.         6,449         Decatur, Ill.         20,754           Chattanooga, Tenn.         30,154         Defiance, Ohio         7,579           Cheboygan, Mich.         6,489         De Kalb, Ill.         5,904           Chester, Pa.         33,988         Denison, Tex.         11,807           Chicopee, Mass.         19,167         Derby, Ct.         7,930           Chicago Heights, Ill.         5,100         Derby, Ct.         7,930           Chicleothe, Mo.         6,905         Detroit, Mich.         285,704           Chillicothe, Ohio	Catskill, N. 1		Crawfordsville, Ind	0,049
Centreville, Iowa	Cedar Falls, lowa		Creston, lowa	7,752
Central Falls, R. I.         18,167         Cumberland, Md.         17,128           Centralia, Ill.         6,721         Dallas, Tex.         42,638           Chambersburg, Pa.         8,864         Danbury, Ct.         16,537           Champaign, Ill.         9,998         Danville, Ill.         16,537           Charleston, Pa.         5,930         Danville, Pa.         8,042           Charleston, Ill.         5,488         Danville, Va.         16,520           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         11,099         Dayton, Ohio         85,333           Charleston, W. Va.         11,099         Decatur, Ill.         20,754           Charleston, W. Va.         11,099         Dayton, Ohio         85,333           Charleston, Mich.         6,449         Decatur, Ill.         20,754           Chaltanooga, Tenn.         30,154         Deflance, Ohio         7,579           Cheboygan, Mich.         6,489         De Kalb, Ill.         5,904           Chester, Pa.         33,988				
Centralia, Ill.         6,721         Dallas, Tex.         42,638           Chambersburg, Pa.         8,864         Danbury, Ct.         16,537           Champaign, Ill.         9,098         Danville, Ill.         16,534           Charlerol, Pa.         5,930         Danville, Pa.         8,042           Charleston, Ill.         5,488         Danville, Pa.         16,520           Charleston, S. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         18,091         Dayton, Ohio         85,333           Charlestor, Tenn.         30,154         Defance, Ohio         7,579           Chattanooga, Tenn.         30,154         Deflance, Ohio         7,579           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Chester, Pa.         33,983         Denison, Tex.         11,807           Cheyenne, Wyo.         14,087         Derby, Ct.         7,930           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chicago, Heights, Ill.         5,100         De Soto, Mo.         5,611           Chippewa Falls, Wis         3,94	Centreville, Iowa		Crookston, Mich	5,359
Centralia, Ill.         6,721         Dallas, Tex.         42,638           Chambersburg, Pa.         8,864         Danbury, Ct.         16,537           Champaign, Ill.         9,098         Danville, Ill.         16,534           Charlerol, Pa.         5,930         Danville, Pa.         8,042           Charleston, Ill.         5,488         Danville, Pa.         16,520           Charleston, S. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charleston, W. Va.         18,091         Dayton, Ohio         85,333           Charlestor, Tenn.         30,154         Defance, Ohio         7,579           Chattanooga, Tenn.         30,154         Deflance, Ohio         7,579           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Chester, Pa.         33,983         Denison, Tex.         11,807           Cheyenne, Wyo.         14,087         Derby, Ct.         7,930           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chicago, Heights, Ill.         5,100         De Soto, Mo.         5,611           Chippewa Falls, Wis         3,94	Central Falls, R. I.	18,167	Cumberland, Md	17,128
Champaign, Ill.         9,998         Danville, Pa.         16,354           Charleston, Ill.         5,930         Danville, Pa.         8,042           Charleston, S. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charlotte, N. C.         18,091         Dayton, Ky.         6,104           Charlottesville, Va.         6,449         Decatur, Ill.         20,754           Cheboygan, Mich.         6,489         Decatur, Ill.         5,904           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Chester, Pa.         33,988         Denison, Tex.         11,807           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chillicothe, Mo.         6,905         Detroit, Mich.         285,704           Chillicothe, Ohio         12,976         Dixon, Ill.         7,917           Chippewa Falls, Wis         8,994         Dover, N. H.         13,207           Clarksville, Tenn.         9,431         Dubuque, Iowa         36,297           Clarksville, Pa.         5,081	Centralia, Ill.	6.721	Dallas, Tex.	42.638
Champaign, Ill.         9,998         Danville, Pa.         16,354           Charleston, Ill.         5,930         Danville, Pa.         8,042           Charleston, S. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charlotte, N. C.         18,091         Dayton, Ky.         6,104           Charlottesville, Va.         6,449         Decatur, Ill.         20,754           Cheboygan, Mich.         6,489         Decatur, Ill.         5,904           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Chester, Pa.         33,988         Denison, Tex.         11,807           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chillicothe, Mo.         6,905         Detroit, Mich.         285,704           Chillicothe, Ohio         12,976         Dixon, Ill.         7,917           Chippewa Falls, Wis         8,994         Dover, N. H.         13,207           Clarksville, Tenn.         9,431         Dubuque, Iowa         36,297           Clarksville, Pa.         5,081	Chambersburg, Pa.		Danbury Cf	16.537
Charlerol, Pa.         5,930         Danville, Pa.         8,042           Charleston, III.         5,488         Danville, Va.         16,520           Charleston, S. C.         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charlottesville, Va.         6,449         Dayton, Ohio         85,333           Charlottesville, Va.         6,449         Decatur, III.         20,754           Chattanooga, Tenn         30,154         Deflance, Ohio         7,579           Cheboygan, Mich.         6,489         De Kalb, III.         5,904           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Cheyenne, Wyo.         14,087         Denver, Col.         133,859           Chicago, III.         1,698,575         Des Moines, Iowa         62,139           Chicago, Heights, III.         5,100         De Soto, Mo.         5,611           Chillicothe, Mo.         6,6905         Detroit, Mich.         285,704           Chillicothe, Ohio         12,976         Dixon, III.         7,917           Cincleville, Ohio         325,902         Dover, N. J.         5,338           Ciarksville, Tenn.         9,43	Champaign Ill		Danville III	16 354
Charleston, Ill.         5.488         Danville, Va.         16,520           Charleston, S. C         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charlotte, N. C         18,091         Dayton, Ohio         85,333           Charlottesville, Va.         6,449         Decatur, Ill.         20,754           Chattanooga, Tenn.         30,154         Deflance, Ohio         7,579           Cheboygan, Mich.         6,489         De Kalb, Ill.         5,904           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Chester, Pa.         33,988         Denver, Col.         13,859           Cheyenne, Wyo.         14,087         Derby, Ct.         7,930           Chicopee, Mass.         19,167         Derby, Ct.         7,930           Chicago Heights, Ill.         5,100         De Soto, Mo.         5,611           Chillicothe, Mo.         6,905         Detroit, Mich.         285,701           Chinippewa Falls, Wis         8,994         Dover, N. H.         13,207           Chirchanati, Ohio         325,902         Dover, N. H.         13,207           Clarksville, Tenn.         9,431	Charleroi Pa		Danville Po	
Charleston, S. C         55,807         Davenport, Iowa         35,254           Charleston, W. Va.         11,099         Dayton, Ky.         6,104           Charlottes, N. C         18,091         Dayton, Ohio         85,333           Chattanooga, Tenn.         30,154         Decatur, III.         20,754           Cheboygan, Mich.         6,489         De Kalb, III.         5,904           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Cheyenne, Wyo.         14,087         Denver, Col.         133,859           Chicopee, Mass.         19,167         Derby, Ct.         7,930           Chicago, III.         1,698,875         Des Moines, Iowa.         62,139           Chicago Heights, III.         5,100         De Soto, Mo.         5,611           Chillicothe, Mo.         6,905         Detroit, Mich.         285,704           Chillicothe, Ohio         12,976         Dixon, III.         7,917           Chippewa Falls, Wis         3,094         Dover, N. H.         13,207           Ciarksville, Tenn.         9,431         Dubois, Pa.         9,375           Clearfield, Pa.         5,681         Dubudith, Minn.         52,969           Cleveland, Ohio         381,768 <td>Charleston III</td> <td></td> <td>Danville Ve</td> <td>16 590</td>	Charleston III		Danville Ve	16 590
Charleston, W. Va.         11,099         Dayton, Ry.         6,104           Charlottes Ville, Va.         6,449         Dayton, Ohio         85,333           Charlottesville, Va.         6,449         Decatur, Ill.         20,754           Chattanooga, Tenn         30,154         Decatur, Ill.         20,754           Cheboygan, Mich.         6,489         De Kalb, Ill.         5,904           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Cheyenne, Wyo.         14,987         Denver, Col.         133,859           Chicopee, Mass.         19,167         Derby, Ct.         7,930           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chiclago, Heights, Ill.         5,100         De Soto, Mo.         5,611           Chillicothe, Mo.         6,6905         Detroit, Mich.         285,704           Chillicothe, Ohio         12,976         Dixon, Ill.         7,917           Chippewa Falls, Wis         8,094         Dover, N. H.         13,207           Clarksville, Ohio         6,991         Dubors, Pa.         9,375           Clarksville, Tenn.         9,431         Dubuque, Iowa         36,297           Cleburne, Tex.         7,493	Charleston, Ill.		Danville, va	10,020
Charleston, W. Va.         11,099         Dayton, Ry.         6,104           Charlottes Ville, Va.         6,449         Dayton, Ohio         85,333           Charlottesville, Va.         6,449         Decatur, Ill.         20,754           Chattanooga, Tenn         30,154         Decatur, Ill.         20,754           Cheboygan, Mich.         6,489         De Kalb, Ill.         5,904           Chelsea, Mass.         34,072         Delaware, Ohio         7,940           Cheyenne, Wyo.         14,987         Denver, Col.         133,859           Chicopee, Mass.         19,167         Derby, Ct.         7,930           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chiclago, Heights, Ill.         5,100         De Soto, Mo.         5,611           Chillicothe, Mo.         6,6905         Detroit, Mich.         285,704           Chillicothe, Ohio         12,976         Dixon, Ill.         7,917           Chippewa Falls, Wis         8,094         Dover, N. H.         13,207           Clarksville, Ohio         6,991         Dubors, Pa.         9,375           Clarksville, Tenn.         9,431         Dubuque, Iowa         36,297           Cleburne, Tex.         7,493	Charleston, S. C		Davenport, Iowa	35,254
Chattanooga, Tenn.         30,154         Defiance, Ohio.         7,579           Cheboygan, Mich.         6,489         De Kalb, Ill.         5,904           Chester, Pa.         33,988         Denison, Tex.         11,807           Cheyenne, Wyo.         14,087         Denison, Tex.         11,807           Chicopee, Mass.         19,167         Derby, Ct.         7,930           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chicago Heights, Ill.         5,100         De Soto, Mo.         5,611           Chillicothe, Moo.         6,905         Detroit, Mich.         285,704           Chinilicothe, Ohio         12,976         Dixon, Ill.         7,917           Chinppewa Falls, Wis         8,994         Dover, N. H.         13,207           Cincinnati, Ohio         325,902         Dover, N. H.         13,207           Ciarksville, Ohio         6,991         Dubous, Pa.         9,375           Clarksville, Tenn.         9,431         Dubuque, Iowa         36,297           Cleveland, Ohio         381,768         Dunmare, Pa.         12,582           Clinton, Iowa         22,698         Duquesne, Pa.         9,036           Clinton, Mo.         5,061 <td< td=""><td>Charleston, W. Va</td><td></td><td>Dayton, Ky</td><td>6,104</td></td<>	Charleston, W. Va		Dayton, Ky	6,104
Chattanooga, Tenn.         30,154         Defiance, Ohio.         7,579           Cheboygan, Mich.         6,489         De Kalb, Ill.         5,904           Chester, Pa.         33,988         Denison, Tex.         11,807           Cheyenne, Wyo.         14,087         Denison, Tex.         11,807           Chicopee, Mass.         19,167         Derby, Ct.         7,930           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chicago Heights, Ill.         5,100         De Soto, Mo.         5,611           Chillicothe, Moo.         6,905         Detroit, Mich.         285,704           Chinilicothe, Ohio         12,976         Dixon, Ill.         7,917           Chinppewa Falls, Wis         8,994         Dover, N. H.         13,207           Cincinnati, Ohio         325,902         Dover, N. H.         13,207           Ciarksville, Ohio         6,991         Dubous, Pa.         9,375           Clarksville, Tenn.         9,431         Dubuque, Iowa         36,297           Cleveland, Ohio         381,768         Dunmare, Pa.         12,582           Clinton, Iowa         22,698         Duquesne, Pa.         9,036           Clinton, Mo.         5,061 <td< td=""><td>Charlotte, N. C</td><td></td><td></td><td></td></td<>	Charlotte, N. C			
Chattanooga, Tenn.         30,154         Defiance, Ohio.         7,579           Cheboygan, Mich.         6,489         De Kalb, Ill.         5,904           Chester, Pa.         33,988         Denison, Tex.         11,807           Cheyenne, Wyo.         14,087         Denison, Tex.         11,807           Chicopee, Mass.         19,167         Derby, Ct.         7,930           Chicago, Ill.         1,698,575         Des Moines, Iowa         62,139           Chicago Heights, Ill.         5,100         De Soto, Mo.         5,611           Chillicothe, Moo.         6,905         Detroit, Mich.         285,704           Chinilicothe, Ohio         12,976         Dixon, Ill.         7,917           Chinppewa Falls, Wis         8,994         Dover, N. H.         13,207           Cincinnati, Ohio         325,902         Dover, N. H.         13,207           Ciarksville, Ohio         6,991         Dubous, Pa.         9,375           Clarksville, Tenn.         9,431         Dubuque, Iowa         36,297           Cleveland, Ohio         381,768         Dunmare, Pa.         12,582           Clinton, Iowa         22,698         Duquesne, Pa.         9,036           Clinton, Mo.         5,061 <td< td=""><td>Charlottesville, Va</td><td></td><td>Decatur, Ill</td><td>20,754</td></td<>	Charlottesville, Va		Decatur, Ill	20,754
Chelsea, Mass. 34,072 Chester, Pa. 33,988 Chicopee, Myo. 14,087 Chicopee, Mass. 19,167 Chicago, Ill. 1,698,575 Chicago, Ill. 0,6995 Chicago Heights, Ill. 5,100 Chillicothe, Mo. 6,905 Chillicothe, Mo. 12,976 Chillicothe, Ohio 12,976 Chiclicothe, Ohio 225,902 Circleville, Ohio 6,991 Clarksville, Tenn. 9,431 Clearfield, Pa. 5,881 Cleveland, Ohio 381,768 Cleveland, Ohio 381,768 Clinton, Iwa 22,698 Clinton, Iwa 22,698 Clinton, Iwa 22,698 Clinton, Mo. 5,661 Coatesville, Pa. 5,721 Columbia, Mo. 5,561 Columbia, Pa. 12,316 Columbia, Tenn. 6,662 Columbia, Ga. 17,614 Elizabeth, N. J. 52,438 Columbus, Ga. 17,614 Elizabeth, N. J. 52,439 Columbus, Ga. 17,614 Elizabeth, N. J. 52,439 Columbus, Ind. 8,130	Chattanooga, Tenn.	30,154		7.579
Chelsea, Mass. 34,072 Chester, Pa. 33,988 Denison, Tex. 11,807 Chicopee, Mass. 19,167 Chicopee, Mass. 19,167 Chicago, Ill. 1,698,575 Chicago, Ill. 1,698,575 Chicago, Ill. 5,100 Chillicothe, Mo. 6,905 Chillicothe, Ohio 12,976 Chillicothe, Ohio 12,976 Chillicothe, Ohio 325,902 Cinclinati, Ohio 325,902 Circleville, Ohio 6,991 Clarksville, Tenn. 9,431 Clearfield, Pa. 5,081 Cleburne, Tex. 7,493 Cliedurne, Tex. 7,493 Clinton, Jowa 22,698 Clinton, Jowa 23,1768 Clinton, Mo. 5,661 Conces, N. Y. 23,910 Coatesville, Pa. 5,721 Coatesville, Pa. 5,721 Coatesville, Pa. 5,721 Coatesville, Pa. 5,721 Columbia, Mo. 5,661 Columbia, Tenn. 6,216 Columbia, Tenn. 6,216 Columbia, Tenn. 6,216 Columbia, Tenn. 6,262 Columbia, Tenn. 6,262 Columbia, Tenn. 6,652 Columbia, Tenn. 6,652 Columbia, Ga. 17,614 Elizabeth, N. J. 52,130 Columbus, Jan. 18,130	Chebovgan, Mich	6.489		5.904
Chicopee, Mass. 19.167 Chicopee, Mass. 19.167 Chicopee, Mass. 19.167 Chicago, Ill 1,698,575 Chicopee, Mass. 19.167 Chicago, Ill 1,698,575 Chicago, Ill	Chelsea Mass			
Chicopee, Mass. 19.167 Chicopee, Mass. 19.167 Chicopee, Mass. 19.167 Chicago, Ill 1,698,575 Chicopee, Mass. 19.167 Chicago, Ill 1,698,575 Chicago, Ill	Chester Pa	33 988	Denison Tex	
Chicago, III	Chovenna Wyo	14 087	Donwar Col	122 950
Chillicothe, Mo. 6,905 Chillicothe, Ohio 12,976 Chillicothe, Ohio 325,902 Chillicothe, Ohio 6,991 Chillicothe, Tenn. 9,431 Clevelile, Ohio 6,991 Clearfield, Pa. 5,081 Cleburne, Tex. 7,493 Cleveland, Ohio 381,768 Clinton, Iowa 22,698 Clinton, Mo. 5,061 Clinton, Mo. 5,061 Clinton, Mo. 5,061 Chillicothe, Pa. 5,721 Codessylle, Pa. 5,721 Colows, N. Y. 23,910 Colows, N. Y. 23,910 Colows, Mo. 5,651 Colows, Mo. 5,652 Colows, Mo. 5,652 Colows, Mo. 5,651 Col	Chicanas Magg	10 167	Douber Ct	
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Chillicothe, Mo. 6,905 Chillicothe, Ohio 12,976 Chillicothe, Ohio 325,902 Chillicothe, Ohio 6,991 Chillicothe, Tenn. 9,431 Clevelile, Ohio 6,991 Clearfield, Pa. 5,081 Cleburne, Tex. 7,493 Cleveland, Ohio 381,768 Clinton, Iowa 22,698 Clinton, Mo. 5,061 Clinton, Mo. 5,061 Clinton, Mo. 5,061 Chillicothe, Pa. 5,721 Codessylle, Pa. 5,721 Colows, N. Y. 23,910 Colows, N. Y. 23,910 Colows, Mo. 5,651 Colows, Mo. 5,652 Colows, Mo. 5,652 Colows, Mo. 5,651 Col	Chicago Heights, III.	5,100	De Soto, Mo	5,611
Cincleville, Ohio         325,902         Dover, N. J.         5,938           Circleville, Ohio         6,891         Dubois, Pa.         9,375           Clarksville, Tenn.         9,481         Dubouque, Iowa         36,297           Cleburne, Tex.         7,493         Dunkirk, N. Y.         11,616           Cleveland, Ohio         381,768         Dunmore, Pa.         12,583           Clinton, Iowa         22,698         Duquesne, Pa.         9,036           Clinton, Mo.         5,061         Durham, N. C.         6,679           Coatesville, Pa.         5,721         East Liverpool, Ohio         16,485           Coloes, N. Y.         23,910         Easton, Pa.         25,238           Coldwater, Mich.         6,216         East Orange, N. J.         21,501           Columbia, Mo.         5,551         East St. Louis, Ill.         9,655           Columbia, Pa.         12,316         Eau Claire, Wis.         17,517           Columbia, Tenn.         6,652         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Chillicothe, Mo	6,905	Detroit, Mich	
Cincleville, Ohio         325,902         Dover, N. J.         5,938           Circleville, Ohio         6,891         Dubois, Pa.         9,375           Clarksville, Tenn.         9,481         Dubouque, Iowa         36,297           Cleburne, Tex.         7,493         Dunkirk, N. Y.         11,616           Cleveland, Ohio         381,768         Dunmore, Pa.         12,583           Clinton, Iowa         22,698         Duquesne, Pa.         9,036           Clinton, Mo.         5,061         Durham, N. C.         6,679           Coatesville, Pa.         5,721         East Liverpool, Ohio         16,485           Coloes, N. Y.         23,910         Easton, Pa.         25,238           Coldwater, Mich.         6,216         East Orange, N. J.         21,501           Columbia, Mo.         5,551         East St. Louis, Ill.         9,655           Columbia, Pa.         12,316         Eau Claire, Wis.         17,517           Columbia, Tenn.         6,652         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Chillicothe, Ohio		Dixon, Ill	
Cincleville, Ohio         325,902         Dover, N. J.         5,938           Circleville, Ohio         6,891         Dubois, Pa.         9,375           Clarksville, Tenn.         9,481         Dubouque, Iowa         36,297           Cleburne, Tex.         7,493         Dunkirk, N. Y.         11,616           Cleveland, Ohio         381,768         Dunmore, Pa.         12,583           Clinton, Iowa         22,698         Duquesne, Pa.         9,036           Clinton, Mo.         5,061         Durham, N. C.         6,679           Coatesville, Pa.         5,721         East Liverpool, Ohio         16,485           Coloes, N. Y.         23,910         Easton, Pa.         25,238           Coldwater, Mich.         6,216         East Orange, N. J.         21,501           Columbia, Mo.         5,551         East St. Louis, Ill.         9,655           Columbia, Pa.         12,316         Eau Claire, Wis.         17,517           Columbia, Tenn.         6,652         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Chippewa Falls, Wis	8,094	Dover, N. H	
Circleville, Ohio         6,991         Dubois, Pa.         9,375           Clarksville, Tenn.         9,481         Dubuque, Iowa         36,297           Clearfield, Pa.         5,081         Duluth, Minn.         52,969           Cleveland, Ohio         381,768         Dunmore, Pa.         12,583           Clinton, Iowa         22,698         Duquesne, Pa.         9,036           Clinton, Mo.         5,061         Durham, N. C.         6,679           Coatesville, Pa.         5,721         East Liverpool, Ohio         16,485           Coloes, N. Y.         23,910         Easton, Pa.         25,238           Coldwater, Mich.         6,216         East Orange, N. J.         21,506           Colo. Springs, Col.         21,085         Eastport, Me.         5,311           Columbia, Pa.         12,316         Eau Claire, Wis.         17,516           Columbia, S. C.         21,108         Edwardsville, Pa.         5,165           Columbia, Tenn.         6,052         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C. A.         6,348	Cincinnati. Ohio	325,902	Dover. N. J	5.938
Clarksville, Tenn.         9.431         Dubuque, Iowa         36.297           Clearfield, Pa.         5,081         Duluth, Minn.         52.969           Cleburne, Tex.         7,493         Dunkirk, N. Y.         11.616           Cleveland, Ohio         381,768         Dunmore, Pa.         12,583           Clinton, Iowa         22.698         Duquesne, Pa.         9,036           Clinton, Mo.         5,061         Durham, N. C.         6,679           Coatesville, Pa.         5,721         East Liverpool, Ohio         16,485           Coloes, N. Y.         23,910         Easto Orange, N. J.         21,508           Colou Springs, Col.         21,085         East port, Me.         5,311           Columbia, Mo.         5,651         East St. Louis, Ill.         9,655           Columbia, Pa.         12,316         Eau Claire, Wis.         17,517           Columbia, Tenn.         6,652         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Circleville Ohio	6.991	Dubois, Pa.	9.375
Clinton, 10wa 22,598 Duquesne, Pa. 9,036 Clinton, Mo. 5,661 Durham, N. C. 6,679 Coatesville, Pa. 5,721 East Liverpool, Ohio 16,485 Cohoes, N. Y. 23,910 East Drange, N. J. 21,506 Colo. Springs, Col. 21,085 East Orange, N. J. 21,506 Columbia, Mo. 5,651 East St. Louis, Ill. 29,655 Columbia, Pa. 12,316 Eau Claire, Wis. 17,517 Columbia, S. C. 21,108 Edwardsville, Pa. 5,165 Columbia, Tenn. 6,052 Elgin, Ill. 22,433 Columbus, Ind. 8,130 Elizabeth, N. J. 52,130 Columbus, Ind. 8,130 Elizabeth, N. C. A. 6,348	Clarksville, Tenn		Dubuque, Iowa	
Clinton, 10wa 22,598 Duquesne, Pa. 9,036 Clinton, Mo. 5,661 Durham, N. C. 6,679 Coatesville, Pa. 5,721 East Liverpool, Ohio 16,485 Cohoes, N. Y. 23,910 East Drange, N. J. 21,506 Colo. Springs, Col. 21,085 East Orange, N. J. 21,506 Columbia, Mo. 5,651 East St. Louis, Ill. 29,655 Columbia, Pa. 12,316 Eau Claire, Wis. 17,517 Columbia, S. C. 21,108 Edwardsville, Pa. 5,165 Columbia, Tenn. 6,052 Elgin, Ill. 22,433 Columbus, Ind. 8,130 Elizabeth, N. J. 52,130 Columbus, Ind. 8,130 Elizabeth, N. C. A. 6,348	Clearfield, Pa.		Duluth, Minn.	
Clinton, 10wa 22,598 Duquesne, Pa. 9,036 Clinton, Mo. 5,661 Durham, N. C. 6,679 Coatesville, Pa. 5,721 East Liverpool, Ohio 16,485 Cohoes, N. Y. 23,910 East Drange, N. J. 21,506 Colo. Springs, Col. 21,085 East Orange, N. J. 21,506 Columbia, Mo. 5,651 East St. Louis, Ill. 29,655 Columbia, Pa. 12,316 Eau Claire, Wis. 17,517 Columbia, S. C. 21,108 Edwardsville, Pa. 5,165 Columbia, Tenn. 6,052 Elgin, Ill. 22,433 Columbus, Ind. 8,130 Elizabeth, N. J. 52,130 Columbus, Ind. 8,130 Elizabeth, N. C. A. 6,348	Clehurne Tex			
Clinton, 10wa 22,598 Duquesne, Pa. 9,036 Clinton, Mo. 5,661 Durham, N. C. 6,679 Coatesville, Pa. 5,721 East Liverpool, Ohio 16,485 Cohoes, N. Y. 23,910 East Drange, N. J. 21,506 Colo. Springs, Col. 21,085 East Orange, N. J. 21,506 Columbia, Mo. 5,651 East St. Louis, Ill. 29,655 Columbia, Pa. 12,316 Eau Claire, Wis. 17,517 Columbia, S. C. 21,108 Edwardsville, Pa. 5,165 Columbia, Tenn. 6,052 Elgin, Ill. 22,433 Columbus, Ind. 8,130 Elizabeth, N. J. 52,130 Columbus, Ind. 8,130 Elizabeth, N. C. A. 6,348	Claveland Ohio	381 768	Dunmore Pe	
Coatesville, Pa.         5,721         East Liverpool, Ohio         16,485           Cohoes, N. Y.         23,910         East Orange, N. J.         21,506           Coldwater, Mich.         6,216         East Orange, N. J.         21,506           Columbia, Mo.         5,651         East port, Me.         5,311           Columbia, Pa.         12,316         East St. Louis, Ill.         29,655           Columbia, S. C.         21,108         Edwardsville, Pa.         17,517           Columbia, Tenn.         6,052         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Clinton Jown		Duquegno Po	
Coatesville, Pa.         5,721         East Liverpool, Ohio         16,485           Cohoes, N. Y.         23,910         East Orange, N. J.         21,506           Coldwater, Mich.         6,216         East Orange, N. J.         21,506           Columbia, Mo.         5,651         East port, Me.         5,311           Columbia, Pa.         12,316         East St. Louis, Ill.         29,655           Columbia, S. C.         21,108         Edwardsville, Pa.         17,517           Columbia, Tenn.         6,052         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Clinton, lowa		Duquesne, Pa.	
Coldwater, Mich.         6,216         East Orange, N. J.         21,005           Colo. Springs, Col.         21,085         Eastport, Me.         5,311           Columbia, Mo.         5,651         East St. Louis, Ill.         29,655           Columbia, Pa.         12,316         Eau Claire, Wis.         17,517           Columbia, Sc.         21,108         Edwardsville, Pa.         5,165           Columbia, Tenn.         6,062         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Clinton, Mo.		Durnam, N. C	
Coldwater, Mich.         6,216         East Orange, N. J.         21,005           Colo. Springs, Col.         21,085         Eastport, Me.         5,311           Columbia, Mo.         5,651         East St. Louis, Ill.         29,655           Columbia, Pa.         12,316         Eau Claire, Wis.         17,517           Columbia, Sc.         21,108         Edwardsville, Pa.         5,165           Columbia, Tenn.         6,062         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Coatesville, Pa	5,721	East Liverpool, Ohio	16,485
Coldwater, Mich.         6,216         East Orange, N. J.         21,005           Colo. Springs, Col.         21,085         Eastport, Me.         5,311           Columbia, Mo.         5,651         East St. Louis, Ill.         29,655           Columbia, Pa.         12,316         Eau Claire, Wis.         17,517           Columbia, Sc.         21,108         Edwardsville, Pa.         5,165           Columbia, Tenn.         6,062         Elgin, Ill.         22,433           Columbus, Ga.         17,614         Elizabeth, N. J.         52,130           Columbus, Ind.         8,130         Elizabeth, N. C.         6,348	Cohoes, N. Y		Easton, Pa	25,238
Colo. Springs, Col.       21,085       Eastport, Me.       5,311         Columbia, Mo.       5,651       East St. Louis, Ill.       29,655         Columbia, Pa.       12,316       Eau Claire, Wis.       17,517         Columbia, S. C.       21,108       Edwardsville, Pa.       5,165         Columbia, Tenn.       6,052       Elgin, Ill.       22,433         Columbus, Ga.       17,614       Elizabeth, N. J.       52,130         Columbus, Ind.       8,130       Elizabeth, N. C.       6,348	Coldwater, Mich		East Orange, N. J	21,506
Columbia, Pa.       12,316       Eau Claire. Wis.       17,517         Columbia, S. C.       21,108       Edwardsville, Pa.       5,165         Columbia, Tenn.       6,052       Elgin, Ill.       22,433         Columbus, Ga.       17,614       Elizabeth, N. J.       52,130         Columbus, Ind.       8,130       Elizabeth, N. C.       6,348	Colo. Springs, Col		Eastport, Me	
Columbia, Pa.       12,316       Eau Claire. Wis.       17,517         Columbia, S. C.       21,108       Edwardsville, Pa.       5,165         Columbia, Tenn.       6,052       Elgin, Ill.       22,433         Columbus, Ga.       17,614       Elizabeth, N. J.       52,130         Columbus, Ind.       8,130       Elizabeth, N. C.       6,348		5,651	East St. Louis, Ill	29,655
Columbia, S. C.       21,108       Edwardsville, Pa.       5,165         Columbia, Tenn.       6,052       Elgin, Ill.       22,433         Columbus, Ga.       17,614       Elizabeth, N. J.       52,130         Columbus, Ind.       8,130       Elizabeth, N. C.       6,348	Columbia, Pa.	12.316	Eau Claire, Wis	17.517
Columbia, Tenn.       6,062       Elgin, Ill.       22,433         Columbus, Ga.       17,614       Elizabeth, N. J.       52,130         Columbus, Ind.       8,130       Elizabeth, N. C.       6,348	Columbia, S. C		Edwardsville, Pa	
Columbus, Ga 17,614 Elizabeth, N. J 52,130 Columbus, Ind 8,130 Elizabeth, N. C 6,348	Columbia Tenn		Elgin, Ill.	
Columbus, Ind 8,130 Elizabeth, N. C 6,348	Columbus Ga		Elizabeth N J	
Columbus, Miss 6,484 Eikhart, Ind 15,184	Columbus Ind		Elizabeth N C	
Columbus, Miss 0,101 Elahart, Ind 15,104	Columbus, Miss			
	Columbus, Miss	0,701	Dimilart, Illu	10,104

# Incorporated Places Having 5,000 Inhabitants or More Continued

Elmira, N. Y	35.672	Goldsboro, N. C	5,877
El Pago Tos	15,906	Goshen, Ind	7,810
El l'aso, l'ex		Costien, Ind.	5,010
El Paso, Tex Elwood, Ind.	12,950	Grafton, W. Va Grand Forks, N. D.	5,650
Elyria, Ohio	8,791	Grand Forks, N. D.	7,652
Emporia, Kan	8,223	Grand Island, Neb.,	7,554
Emporia, Kan		Gianu Islanu, Neb.	1,00%
Englewood, N. J	6,253	Grand Rapids, Mich.	87,565
Erie, Pa	52,733	Great Falls, Mont	14.930
Escanaba, Mich	9.549	Croon Boy Win	18.684
		Great Falls, Mont Green Bay, Wis Greensboro, N. C	
Etna, Pa	5,384	Greensboro, N. C	10,035
Eureka, Cal Evanston, Ill	7,327	Greensburg, Ind	5.034
Evenation III	19,259	Croonshurg Po	6,508
Evanston, In		Greensburg, Fa	
Evansville, Ind	59,007	Greensburg, Ind Greensburg, Pa Greenville, Miss	7,642
Everett. Mass	24,336	Greenville, Ohio	5,501
Everett, Mass Everett, Wash	7,838	Greenville, S. C	11.860
The invested ATT TTO		Characteristic, D. Cirris	6.860
Fairmont, W. Va	5,655	Greenville, Tex	
Fall River, Mass	104,863	Griffin, Ga	6,857
Fall River, Mass Fargo, N. Dak Faribault, Minn	9.589	Guthrie, Okla Hackensack, N. J	10.006
Foriboult Minn	7,868	Haelrongools N I	9,443
Farmauit, Milli		Hackensack, IV. J	
Fergus Falls, Minn.	6,072	Hagerstown, Md	13,591
Findlay, Ohio	17,613	Hamilton, Ohio	23,914
Eitchburg Magg	31,531	Hammond Ind	12,376
Elina Cites Mich		Transital Ma	12,780
Flint City, Mich	13,103	Hammond, Ind Hannibal, Mo	
Florence, Ala	6.478	Hanover, Pa	5.302
Florence, Ala Fond du Lac, Wis	15,110	Harrisburg, Pa	50.167
Fort Dodge, Iowa	12,162	Harrison, N. J	10,596
	12,102	marrison, IV. J	
Fort Madison, Iowa.	9,278	Hartford, Ct. Hartford, Ind.	79,850
Fort Scott, Kan	10,322	Hartford, Ind.	5.912
Fort Smith, Ark	11,587	Harvey III	5.395
Fort Miner, Ark.		Harvey, Ill Hastings, Neb	
Fort Wayne, Ind	45,115	Hastings, Neb	7,188
Fort Worth, Tex	26,688	Haverhill, Mass Haverstraw, N. Y	37,175
Fostoria, Ohio	7,730	Haverstraw N. V	5,935
Frankfort Ind	7,100	Hazelton, Pa	14,230
Frankfort, Ind		nazeiton, ra	14,400
Frankfort, Ky Franklin, N. H	9,487	Helena, Ark	5,550
Franklin, N. H	5,846	Helena, Mont	10,770
Franklin City, Pa	7,317	Handerson Ky	10,272
Franklin City, La		Tradition on M. W.	
Frederick, Md	9,296	Henderson, Ky Herkimer, N. Y	5,555
Fredericksburg, Va	5,068	Hillsboro, Tex Hoboken, N. J Holland, Mich Holyoke, Mass	5,346
Freeland, Pa	5,254	Hoboken N J	59,364
Fromont III	13,258	Holland Mich	7,790
Freeport, Ill Fremont, Neb	10,400	Holland, Mich.	45 510
Fremont, Neb	7,241	Holyoke, Mass	45,712
Fremont, Ohio	8,439	Homestead, Pa	12,154
Fresno, Cal	12,470	Honolulu, Hawaii	39,306
Eresto, Cal			5.671
Frostburg, Md	5,274	Hoosick Falls, N. Y.	
Fulton, N. Y	5,281	Hopkinsville, Ky	7,280
Gainesville, Tex	7,874	Hornellsville, N. Y	11.918
Galena, Ill	5,005	Hot Springs, Ark	9.973
Galena, III.		not springs, Ark	
Galena, Kan	10,155	Houston, Tex	44,633
Galesburg, Ill	18,607	Hudson, N. Y Huntington, Pa	9,528
Galion, Ohio	7,282	Huntington Pa	6.053
Callinglia Ohio	5,432	Huntington Ind	9,491
Gampons, Onto	0,404	Huntington, Ind Huntington, W. Va.	
Galveston, Tex	37,789	Huntington, W. Va.	11,923
Gallipolis, Ohio Galveston, Tex. Gardiner, Me. Geneva, N. Y. Glens Falls, N. Y.	5.501	Huntsville, Ala	8,068
Geneva N V	10,433	Hutchinson, Kan	9,379
Clama Falla M M		The My W	5.138
Giens Falls, N. Y	12,613	Ilion, N. Y.	
Gienville, Onio	5,588	Independence, Mo	6,974
Gloucester, Mass	26.121	Independence, Mo Indianapolis, Ind	169.164
Gloucester, N. J	6.840	Tolo Ton	5,791
Gloucester, IV. J		Iola, Kan	
Gloversville, N. Y	18,349	Ionia City, Mich	5,209

# Incorporated Places Having 5,000 Inhabitants or More Continued

Iowa City, Iowa	7,987	Lebanon, Pa	17,628
Iron Mountain, Mich.	9.242	Lewiston, Me	23,761
Ironton. Ohio	11,868	Lexington, Ky	26,369
Ironwood, Mich	9,705	Lima, Ohio	21,723
Irvington, N. J	5,255	Lincoln, Ill	8,962
Ishpeming, Mich	13.255	Lincoln, Neb	40.169
Ishpeming, Mich Ithaca, N. Y	13,136	Litchfield, Ill	5.918
Jackson, Mich	25,180	Little Falls, Minn	5,774
Jackson, Miss	7,816	Little Falls, N. Y	10,381
Tankson Tenn	14,511	Little Rock, Ark	38,307
Jacksonville, Fla Jacksonville, Ill Jamestown, N. Y Janesville, Wis	28,429	Lock Haven, Pa Lockport, N. Y	7,210
Jacksonville, Ill	15,078	Lockport, N. Y	16,581
Jamestown, N. Y	22,892	Logan, Utah	5,451
Janesville, Wis	13,185	Logansport, Ind	16,204
Jeannette, Pa	5,865	Long Branch, N. J.	8,872
Jefferson City, Mo Jeffersonville, Ind	9,664	Lorain, Ohio	16,028
Jeffersonville, Ind	10,774	Los Angeles, Cal	102,479
Jersey City, N. J Johnstown, N. Y	206,433	Louisiana City, Mo	5,131
Johnstown, N. Y	10,130	Louisville, Ky	204,731
Johnstown, Pa	35,936	Lowell, Mas	94,969
Joliet. Ill	29,353	Ludington, Mich	7,166
Joplin, Mo	26,023	Lynchburg, Va	18,891
Kalamazoo, Mich	24,404	Lynn, Mass	68,513
Kane, Pa	5,296	McKeesport, Pa	34,227
Kankakee, Ill	13,595	McKee's Rocks, Pa	6,352
Kansas City, Kan	51,418	Macomb, Ill	5,375
Kansas City, Mo	163,752	Macon, Ga	23,272
Kaukauna, Wis	5,115	Madison, Ind	7,835
Kearney, Neb	5,634	Madison, Wis Mahanoy, Pa	19,164
Kansas City, Kan Kansas City, Mo Kaukauna, Wis Kearney, Neb Kearny, N. J Keene, N. H Kenosha, Wis	10,896	Mananoy, Pa	13,504
Keene, N. H	9,165	Malden, Mass	33,664
Kenosna, Wis	11,606	Malone, N. Y	5,935
Trenton, Onio	6,852	Manchester, N. H	56,987
Keokuk, Iowa	$\frac{14,641}{8,382}$	Manchester, Va	9,715
Kewanee, Ill Key West, Fla Kingston, N. Y	17.114	Manistee, Mich	14,260
Key West, Fla	24,535	Manitowoc, Wis	11,786 10,599
Kinkavilla Ma	5.966	Mankato, Minn Mansfield, Ohio	17,640
Kirksville, Mo	32,637	Marietta Ohio	13,348
Kokomo Ind	10,609	Marietta, Ohio Marinette, Wis	
Knoxville, Tenn Kokomo, Ind Laconia, N. H	8,042	Marion, Ind	16,195 17,337
Lacrosse, Wis	28,895	Marion, Ohio	11.862
Lafayette, Ind	18,116	Marlboro, Mass	13.609
Lake Charles, La	6,680	Marquette, Mich	10.058
Lancaster, Ohio	8,991	Marshall, Mo	5.086
Lancaster, Pa	41,459	Marshall, Tex	7,855
Lansing, Mich	16,485	Marshalltown, Iowa.	11.544
Lansingburg, N. Y	12.595	Marshfield Wis	5,240
Laporte, Ind	7,113	Martinsburg, W. Va.	7,564
Laramie, Wyo	8,207	Martin's Ferry, Ohio	7,760
Laramie, Wyo Laredo, Tex	13,429	Mason City, Iowa	6,746
La Salle, Ill	10,446	Massillon, Ohio	11,944
Laurium, Mich	5,643	Matawan, N. Y	- 5,807
Lawrence, Kan	10,862	Mattoon, Ill	9,622
Lawrence, Mass	62,559	Maygyille Ky	6,423
Lead, S. Dak	6,210	Meadville, Pa Medford, Mass Melrose, Mass	10,291
Leadville, Col	12,445	Medford, Mass	18,244
Leavenworth, Kan	20,735	Melrose, Mass	12,962

# Incorporated Places Having 5,000 Inhabitants or More Continued

Memphis, Tenn	102,320	N. Brunswick, N. J.	20,006
Menasha, Wis	5,589	Newburgh, N. Y	24,943
Menominee, Mich	12,818	Newburgh, Ohio	5,909
Menominee, Wis	5,655	Newburyport, Mass	14,478
Meriden, Conn	24,296	Newcastle, Pa	28,339
Meridian, Miss	14,050	New Haven, Conn	108,027
Merrill, Wis	8,537	New Haven, Conn New Iberia, La	6,815
Mexico, Mo	5,099	New London, Conn	17,548
Michigan City, Ind	14,850	New Orleans, La	287,104
Middletown, Conn	9,589	New Philadelphia, O.	6,213
Middletown, N. Y	14,522	Newport, Ky	28,301
Middletown, Ohto	9,215	Newport, R. I	22,034
Middletown, Pa	5,608	Newport News, Va	19,635
Millvale, Pa	6,736	Newport, Ky Newport, R. I Newport News, Va New Rochelle, N. Y.	14,720
Millvale, Pa Millville, N. J	10,583	Newton, Kan	6,208
Milton, Pa	6,175	Newton, Mass	33,587
Milwaukee, Wis	285,315	New Ulm, Minn	5,403
Minneapolis, Mich	202,718	N. Whatcom, Wash.	
Minneapolis, Minn Mishawaka, Ind	5,560	N. Whatcom, Wash. New York, N. Y3	.437.202
Moberly, Mo	8,012	Niagara Falls, N. Y.	19,457
Mobile, Ala	38,469	Niles, Ohio	7,468
Moline, Ill	17,248	Nome, Alaska	12,488
Monmouth, Ill.	7,460	Norfolk, Va	46,624
Monongahela, Pa	5,173	Norristown, Pa	22,265
Monroe, La.	5,428	North Adams, Mass.	24,200
Monroe, La Monroe, Mich	5,043	Northampton, Mass.	18,643
Montelair, N. J	13,962	North Braddock, Pa.	6,535
Montgomery, Ala	30,346	N. Plainfield, N. J	5,009
Montpelier Vt	6,266	N. Tonawanda, N. Y.	9,069
Montgomery, Ala Montpelier, Vt Morristown, N. J	11,267	Norwalk, Conn	6.125
Moundsville, W. Va.	5.362	Norwalk, Ohio	7,074
Moundsville, W. Va. Mt. Carmel, Pa	13,179	Norwich, Conn	17,251
Mt. Clemens, Mich.,	6,576	Norwich, N. Y	5,766
Mt. Vernon, Ill	5,216	Norwood Ohio	6,480
Mt. Vernon, Ill Mt. Vernon, Ind	5,132	Oakland, Cal Oconto, Wis Oelwein, Iowa	66,960
Mt Vernon N V	21,228	Ocento Wis	5,646
Mt. Vernon, N. Y Mt. Vernon, Ohio	6,633	Oelwein Iowa	5,142
Muncie, Ind	20,942	Ogden, Utah	16,313
Murphysboro, Ill	6,463	Ogdensburg, N. Y	12,633
Muscatine, Iowa	14,073	Oil City, Pa	13,264
Muskegon, Mich	20.818	Oklahoma City, Okla.	10.037
Nanticoke, Pa	12,116	Old Forga Pa	5,630
Nashua, N. H	23.898	Oldtown, Me Olean, N. Y Olyphant, Pa Omaha, Neb	5,763
Nashville, Tenn	80,865	Olean N. Y	9,462
Natchez, Miss	12,210	Olyphant Pa	6,180
Naugatuck, Conn	10.541	Omaha Neh	102,555
Nehraska City Neh	7,380	Oneida N V	6.364
Nebraska City, Neb. Neenah, Wis	5,954	Oneida, N. Y Oneonta, N. Y Orange City, N. J	7.147
Negaunee, Mich	6.935	Orange City N I	24.141
Nelsonville, Ohio	5,421	Oshkosh Wis	28,284
Nevada, Mo	7,461	Oshkosh, Wis Oskaloosa, Iowa Ossining, N. Y	9,212
New Albany Ind	20,628	Ossining N Y	7.939
New Albany, Ind Newark, N. J	246,070	Oswero N V	22.199
Newark, Ohio	18,157	Ottawa, Ill	10,588
New Bedford, Mass.	62,442	Ottawa, Kan	6.934
Newbern, N. C	9,090	Ottumwa, Iowa	18.197
New Brighton, Pa	6,820		5,561
New Britain, Conn	25,998	Owatonna, Minn Owego, N. Y	5.039
Atom Diream, Comm.	20,000	O 11 C BU, 14. 1	4,000

# Iucorporated Places Having 5,000 Inhabitants or More Continued

	COM		
Owensboro, Ky	. 13.189	Rahway, N. J	7.935
Owosso, Mich	8.696	Raleigh, N. C	13,643
Paducah, Ky	. 19,446	Reading, Pa	78,961
Painesville Ohio		Red Bank, N. J	5,428
Painesville, Ohio	0,023	Ded Wing Minn	7,525
Palestine, Tex	. 8,297	Red Wing, Minn	
Pana, Ill	. 5,530	Red Wing, Minn Rensselaer, N. Y Richmond, Ind	7,466
Paris, Ill	. 6,105	Rienmond, Ind	18,226
Paris, Tex	. 9,358 . 11,703	Richmond, Va	85,050
Parkersburg, W. Va	. 11,703	Richmond, Va Riverside, Cal Roanoke, Va	7,973
Parsons, Kan	. 7,682	Roanoke, Va	21,495
Pasadena, Cal Passaic, N. J	. 9,117	Rochester, Minn	6,843
Passaic, N. J	. 27,777	Rochester, N. H	8,466
Paterson, N. J	. 105,171	Rochester, N. H Rochester, N. Y Rockford, Ill	162,608
Pawtucket, R. I	. 39,231	Rockford, Ill	31,051
Peekskill, N. Y	. 10.358	Rock Hill, S. C	5,485
Pekin, Ill	. 8.420	Rock Island, Ill	19,493
Pensacola, Fla	. 17.747	Rockland, Me	8,150
Peoria, Ill	. 56.100	Rockville, Conn	7.287
Perth Amboy, N. J.	. 17,699	Rome. Ga	7,291
Peru, Ill	. 6,863	Rome, Ga Rome, N. Y	15,343
Peru, Ind	8,463	Rutland, Vt	11,499
Petersburg, Va	21,810	Saco, Me	6.122
Petoskey, Mich	5,285	Sacramento, Cal	29,282
Philadelphia, Pa	1 202 607	Saginaw, Mich	42,345
Dhillinghama N T	10.052	St. Albans. Vt	6.239
Phillipsburg, N. J Phoenix, Ariz	. 10,002		
		St. Charles, Mo	7,982
Phoenixville, Pa		St. Cloud, Minn	8,663
Pine Bluff, Ark		St. Johnsbury, Vt	5,666
Piqua, Ohio	. 12.172	St. Joseph, Mich	5,155
Pittsburg, Kan Pittsburg, Pa Pittsfield, Mass Pittston, Pa	. 10,112	St. Joseph, Mo St. Louis, Mo	102,979
Pittsburg, Pa	., 321,616	St. Louis, Mo	575,238
Pittsfield, Mass	. 21,766	St. Mary's, Ohio	5,359
Pittston, Pa	. 12,556	St. Paul, Minn	163,065
Plainfield, N. J Plattsburg, N. Y	. 15,369	Salem, Mass	35,956
Plattsburg, N. Y	. 8,434	Salem, N. J	5,811
Flymouth, Fa	. 10,040	Salem, Ohio	7,582
Pomona, Cal	. 5,526	Salina, Kan	6,074
Pontiac Mich	. 9,769	Salisbury, N. C	6,277
Portage, Wis	. * 5,459	Salt Lake, Utah	53,531
Port Chester, N. Y.	. 7,440	San Antonio, Tex	53,321
Port Huron, Mich	. 12,158	San Bernardino, Cal.	6,150
Port Chester, N. Y. Port Huron, Mich. Port Jervis, N. Y	. 9,385	San Diego, Cal	17,700
Portland, Me	. 50,145	Sandusky, Ohio	19,664
Portland, Ore	. 90.426	San Francisco, Cal	342,782
Portsmouth N H	10 637	San Jose, Cal	21,500
Portsmouth, Ohio Portsmouth, Va Pottstown, Pa Pottsville, Pa	. 17.870	Santa Barbara, Cal	6.587
Portsmouth Va	17,427	Santa Cruz, Cal	5.659
Pottstown Pa	. 13,696	Sante Fe, N. M	5,603
Pottsville Pa	. 15,710	Santa Rosa, Cal	6,673
Poughkeepsie, N. Y	24.029		12,409
Princeton, Ind		Saratoga Sp's, N Y.	10,538
Providence P T	175,597	Sault Ste. Marie, Mh.	
Providence, R. I	6 105	Savannah, Ga	54,244
Provo, Utah	6,185	Sayre, Pa	5,243
Pueblo, Col	. 28,157	Schenectady, N. Y Scranton, Pa	31,682
Putnam, Conn	6,667	Scranton, Pa	102,026
Putnam, Conn Quincy, Ill Quincy, Mass	. 36,252	Seattle, Wash Sedalia, Mo	80,671
Quincy, Mass	. 23,899	Sedalia, Mo	15,231
Racine, Wis	. 29,102	Selma, Ala	8,713

# Incorporated Places Having 5,000 Inhbaitants or More Continued

Seneca Falls, N. Y	6,519	Torrington, Conn	8,360
Seymour, Ind	6.445	Traverse City, Mich.	9.407
Shamokin, Pa	18,202	Trenton Mo	5,396
		Trenton, Mo Trenton, N. J	
Sharon, Pa	8,916	Trenton, N. J	73,307
Sharpsburg, Pa	6,842	Trinidad, Col	5.345
Sharpsburg, Pa Sheboygan, Wis Shelbyville, Ind	22,962	Trinidad, Col Troy, N. Y	60,651
Shelbyville Ind	7,169	Troy, Ohio	5,881
Chamber of the De		The same of the sa	
Shenandoah, Pa	20,321	Tucson, Ariz	7,531
Sherman, Tex	10,243	Tuscaloosa, Ala	5,094
Shreveport, La	16.013	Tyler, Tex	8,069
Sidney, Ohio	5,688	Tyrone, Pa	5,847
Giana Citas Torres	33,111	Timion by T	
Sioux City, Iowa		Union, N. J	15,187
Sioux Falls, S. Dak	10,266	Union, N. J Union, S. C	5,400
Somersworth, N. H	7,023	Uniontown, Pa	7.344
Somerville, Mass	61,643	Urhana III	5,728
	6,349	Urbana Ohio	6.808
South Amboy, N. J		Uniontown, Pa. Urbana, Ill. Urbana, Ohio Utica, N. Y. Valdosta, Ga.	
South Bend, Ind	35,999	Utica, N. Y	56,383
South Bethlehem, Pa.	13,241	Valdosta, Ga	5.613
S. Norwalk, Conn	6.591	Vallejo, Cal	7.965
South Omaha, Neb	26,001	Valparaiso, Ind	6.280
		Transition, Illu	
South Portland, Me.	6,287	Van Wert, Ohio	6,422
Spartansburg, S. C	11,395	Vicksburg, Miss	14,834
Spokane, Wash	36.848	Vincennes, Ind	10,249
Springfield, Ill	34.159	Wabash, Ind	8,618
	62,059	Wasa Tor	
Springfield, Mass	02,000	Waco, Tex	20,686
Springfield, Mo	23,267	Walla Walla, Wash.	10,049
Springfield, Ohio	38,253	Wallingford, Conn	6,737
Spring Valley, Ill	6,214	Waltham, Mass	23,481
Stamford, Conn	15,997	Warren, Ohio	8,529
Staumton Vo	7.289	Warren De	
Staunton, Va Steelton, Pa Sterling, Ill		Warren, Pa	8,043
Steelton, Pa	12,086	Washington, D. C	278,718
Sterling, Ill	6,309	Washington, Ind Washington, Pa	8.551
Steubenville, Ohio	14,349	Washington, Pa	7,670
Stevens Point, Wis	9,524	Washington C. H., O.	5,751
Callington Minn		Waterham Com	
Stillwater, Minn	12,318	Waterbury, Conn	45,859
Stockton, Cal	17,506	Waterloo, Iowa	12,580
Streator, Ill	14,079	Watertown, N. Y	21,696
Summit. N. J	5.302	Watertown, Wis Waterville, Me	8,437
Sumtion S C	5,673	Waterwille Me	9,477
Combiner De		Waterville, Me	
Sunbury, Pa	9,810	Watervliet, N. Y	14,321
Superior, Wis	31,091	Waukegan, Ill	9,426
Syracuse, N. Y Tacoma, Wash	108,374	Waukesha, Wis	7,419
Tacoma Wash	37,714	Wausau, Wis	12,354
Talladega, Ala	5,056	Wayeross, Ga	5,919
Tallauega, Ala		Wayeross, Ga	
Tamaqua, Pa	7,267	waynesboro, Pa	5,396
Tampa, Fla	15,839	Waynesboro, Pa Webb City, Mo	9,201
Tarentum, Pa Taunton, Mass Temple, Tex	5,472	Wellston, Ohio	8,045
Taunton Mass	31,036	Wellsville, Ohio	6,146
Tomple Tor	7.065	W. Bay City, Mich.	13,119
Temple, 1ex	0.000		13,113
Terre Haute, Ind	36,673	Westbrook, Me	7,283
Terrell, Tex	6,330	West Chester, Pa	9,524
Texarkana, Tex	5,256	West Haven, Conn	5.247
Thomasville, Ga	5,322	West Hoboken, N. J.	23,094
Tiffin, Ohio	10,989	W. New York, N. J.	5.267
Third, Onlo		THE TOTAL OF THE	
Titusville. Pa	8,244	West Orange, N. J	6,889
Toledo, Ohio	131,822	West Pittston. Pa	5,846
Tonawanda, N. Y	7,421	Wheeling, W. Va	38,878
Topeka, Kan	33,608	White Plains, N. Y	7,899
a opomie, andirection	00,000	Traite Limins, 14. 1	1,000

# Incorporated Places Having 5,000 Inhabitants or More Concluded

Wichita, Kan	24,671	Woburn, Mass	14,254
Wilkesbarre, Pa	51,721	Woonsocket, R. I	28,204
Wilkinsburg, Pa	11,886	Wooster, Ohio	6.063
Williamsport, Pa	28,757	Worcester, Mass	118,421
Willimantic, Conn	8,937	Wyandotte, Kan	5.183
Wilmington, Del	76,508	Xenia, Ohio	8,696
Wilmington, N. C	20,976	Yonkers, N. Y	47.931
Winchester, Ky	5,964	York, Neb	5.132
Winchester, Va	5,161	York, Pa	33.708
Winfield, Kan	5,554	Youngstown, Ohio	44.885
Winona, Minn	19,714	Ypsilanti, Mich	7,378
Winsted, Conn	6,804	Zanesville, Ohio	23,538
Winston-Sa'm, N. C.	13,650	,	

## DISTANCES FROM NEW YORK AND THE TIME IT TAKES LETTERS TO REACH THEIR DES-TINATION IN DIFFERENT PARTS OF THE WORLD.

ays.
Ly D.
34
15
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To— Miles.	Days.
Panama 2,355	8
Paris 4,020	8
Rio de Janeiro 6,730	23
Rome, via London 5,030	11
St. Petersburg, via London 5,370	12
Shanghai, via San Francisco 9,920	25
Stockholm, via London 4,975	12
Sydney, via San Francisco	31
Valparaiso, via Panama 5,910	37
Vienna, via London	12
Yokohama, via San Francisco 8,725	20

# POSTAL DISTANCES AND TIME BETWEEN NEW YORK AND OTHER CITIES OF THE UNITED STATES.

The distances by the shortest routes and the time by the fastest trains between New York city and the points indicated are given by the Official Postal Guide as follows:

Cities in United States.	Miles.	Hours.
Albany, N. Y	. 142	31/2
Atlanta, Ga		241/4
Baltimore, Md	. 188	6
Binghamton, N. Y	. 207	51/2
Bismarck, N. Dak	.1,738	601/2
Boise, Idaho	.2,736	921/2
Boston, Mass	. 217	7
Buffalo, N. Y	. 410	91/2
Cape May, N. J	. 172	5
Carson City, Nev	.3,036	1091/4
Charleston, S. C	. 804	211/4
Chattanooga, Tenn	. 853	32
Cheyenne, Wyo	.1,899	54
Chicago, Ill	. 900	23
Cincinnati, Ohio	. 744	23
Cleveland, Ohio	. 568	191/2
Columbus, Ohio	. 624	20
Concord, N. H	. 292	91/2
Deadwood, S. Dak	.1,975	651/2

Cities in United States.	Miles.	Hours
Denver, Colo		611/2
Des Moines, Iowa		371/2
Detroit, Mich		21
Galveston, Tex.		561/2
Harrisburg, Pa.		6
Hartford, Conn.		4
Helena, Mont		89
Hot Springs, Ark		55
Indianapolis, Ind		23
Jacksonville, Fla		32
Kansas City, Mo		381/4
Louisville, Ky		30
Memphis. Tenn		40
Milwaukee, Wis		291/4
Montgomery, Ala		301/2
Montpelier, Vt		101/4
New Orleans, La		40
Omaha, Neb		43
Philadelphia, Pa		3
Pittsburg, Pa		13
Portland, Me		12
Portland, Ore		1141/2
Prescott. Ariz		94
Providence, R. I		6
Richmond, Va		. 111/4
St. Louis, Mo		29
St. Paul, Minn		37
Salt Lake City, Utah		711/2
San Francisco, Cal		106
Santa Fe, N. Mex		82
Savannah, Ga		26
Scranton, Pa	. 146	41/2
Tacoma, Wash	.3,209	102
Topeka, Kan	.1,370	48
Vicksburg, Miss	.1,288	50
Vinita, Ind. T		42
Washington, D. C	. 228	61/2
Wheeling, W. Va	. 496	141/4
Wilmington, Del	. 117	- 5
Wilmington, N. C	. 593	20

### Qualifications for Suffrage, Voting, Etc.

Requirements for Citizenship and for Voting

States	Requirements as to		Residence in	
States	Citizenship	State	County	Precinct
Alabamaa	Citizen or declared intent.	ı year	3 mo.	I mo.
Arkansas	Citizen or declared intent.	I year	6 mo.	I mo.
Californiah, z, a	Actual citizens	I year	90 days	30 days
Coloradob	Citizen or declared intent.	6 mo.	90 days	10 days
Connecticuta	Actual citizens	I year	6 mo.	6 mo.
Delawarea	Actual county taxpayers.	1 year	3 mo.	
Florida	Citizen	I year	6 mo.	
Georgiaa	Actual citizens	I year	6 mo.	
Idaho	Actual citizens	6 mo.	30 days	an dawn
Illinoisa	Actual citizens	1 year	90 days	30 days
Indianae	Actual citizens	6 mo.	60 days	30 days
Iowad	Citizen or declared intent.	6 mo.	60 days	30 days
Louisiana d	Actual citizens	I year	30 days 6 mo.	to days
Mainea	Citizen	2 years	I year	6 mo.
Marylandb	Actual citizens	3 mo,	3 mo.	3 mo.
Massachusetts .a	Actual citizens	I year	6 mo.	I day
Michigana	Citizens	I year	6 mo.	6 mo.
Minnesotaa	Citizen or declared intent.	6 mo.	20 days	20 days
Mississippi   , b	Citizen	3 mo.	20 011,5	30 days
Missourib	Actual citizens	2 years	ı year	I yr.
Montanaa	Citizen or declared intent.	I year	60 days	60 days
Nebraskaa	Citizens	I year	30 days	30 days
Nevadab	Citizen or declared intent.	6 mo.	40 days	10 days
N. Hampshire e	Citizen or declared intent.	6 mo.	30 days	30 days
New Jerseya	Actual citizens	6 mo.	6 mo.	6 mo.
New Yorkd	Actual citizens	I year	5 mo.	
N. Carolinao. b	Actual citizens	I year	4 mo.	30 days
North Dakotad	Actual citizens	I year	90 days	
Ohiod	Citizen or declared intent,	1 year	6 mo.	90 days
Oklahomad	Actual citizens	I year	30 days	30 days
Oregon	Citizen or declared intent.	6 mo.	20 days	30 days
Pennsylvania	Actual citizens	1 year		2 mo.
Rhode Islanda	Actual citizens	2 years		6 mo.
South Carolina.b	Actual citizens	2 years	1 year	4 mo.
South Dakotaa	Citizen or declared intent.	6 mo.	30 days	10 days
Tennesseed	Actual citizens	I year	6 mo.	6 500
Texas	Citizen or declared intent.	1 year	6 mo.	6 mo.
Utahb	Citizen	I year	4 mo.	_
Vermonta	Actual citizens	I year		2 ma
Virginiaa	Actual citizens	I year	oo daye	3 mo.
Washingtona West Virginiac	Citizen or declared intent.	I year	90 days	30 days
Wisconsind	Citizen or declared intent.	I year	I year	10 days
Wyominga	Citizen	I year	60 days	60 days
Arizonax	Citizen or declared intent.	6 mo.	10 days	10 days
Indian Terr*	Citizen or declared intent.	I year	6 mo.	I mo.
Oklahomad. r	Citizen or declared intent.	6 mo.	60 days in	30 days

(a) Registration required by law. (b) Required by constitution. (c) Prohibited by constitution. (d) Required in large cities. (e) No registration required. (x) Mayor and City council have power to require registration. (o) Educational qualification (read the constitution in the English lan-

guage), or own property assessed for not less than \$300, or voter on Jan. 1, 1866, or descendant of such voter, or a foreigner naturalized prior to Jan. 1, 1898. (\*) Citizen 90 days before election. (\*) Bigamists disqualified, (\*) Natives of China disqualified. (\*) Educational qualification by which voter is required to read and understand constitution. (\*) Women may vote of the property of the

vote at school elections.

In Colorado, Idaho. Utah and Wyoming women are entitled to full suffrage, having the same rights to vote as men. Women are entitled to vote at school elections in Connecticut, Illinois, Iowa, Kentucky, Massachusetts, Minnesota, Montana, Nebraska, New Jersey, New York, North Dakota, Ohio, Oregon, South Dakota, Vermont, Washington, Wisconsin

and Kansas.

# TABLES OF INTEREST, DISCOUNT, ETC. INTEREST.

Interest is commonly defined to be a compensation for the use of money or value, though literally it is the use of money.

The amount received or paid for interest is usually a percentage on the amount used, and is either fixed by contract or by statute. Per cent signifies by the hundred and implies, in interest, so many cents on the hundred cents, or so many dollars on the hundred dollars, etc. The usual custom is to reckon interest by the year, but it is better to express the time in the note or other instrument, as it is not necessarily understood. The following simple rule for calculating interest at 6 per cent will be of assistance.

Call every year .06, every two months .01, every six days .001, and any less days sixths of one mill; then to ascertain the interest:

Rule.—Multiply the principal by the rate per cent expressed decimally; or, cut off two figures from the right of dollars in the principal by a decimal point, and the result will be the interest for 60 days; then multiply this result by one-half the number of months required, to which add for days that proportion of the interest for 60 days, which the given number of days is of 60.

Interest Rules.—To find the interest on any sum at 3, 4, 5, 6, 7½, and 10 per cent for one month:

At 3 per cent remove the decimal point two places to the left, divide by 4 and the quotient will be the interest for one month.

At 4 per cent remove the decimal point two places

to the left, divide by 3 and the quotient will be the interest for one month.

At 5 per cent remove the decimal point one place to the left, divide by 24 and the quotient will be the interest for one month.

At 6 per cent remove the decimal point two places to the left, divide by 2 and the quotient will be the interest for one month.

At 7½ per cent remove the decimal point one place to the left, divide by 16 and the quotient will be the interest for one month.

At 8 per cent remove the decimal point one place to the left, divide by 15 and the quotient will be the interest for one month.

At 10 per cent remove the decimal point one place to the left, divide by 12 and the quotient will be the interest for one month.

The following rules are in general use among business men, and may prove of assistance in calculating interest:

Rule.—Multiply the amount of the note or other instrument by the number of days before it becomes due, point off the right-hand figure and divide by the numbers stated in the following table:

4 per cent divide by.... 9 10 per cent divide by....36 5 per cent divide by....72 12 per cent divide by.... 3 6 per cent divide by.... 6 15 per cent divide by....24 8 per cent divide by....45 18 per cent divide by.... 2 9 per cent divide by.... 4 20 per cent divide by....18

The rule for casting interest, when the partial payments have been made, is to apply the payment, in the first place, to the discharge of the interest then due. If the payment exceeds the interest, the surplus goes towards discharging the principal, and the subsequent interest is to be computed on the balance of the principal remaining due. If the payment is less than the interest, the surplus of interest must not be taken to augment the principal; but interest continues on former principal until the period when the payments, taken together, exceed the interest due, and then the surplus is to be applied towards discharging the principal, and interest is to be computed on the balance.

#### Interest Laws and Statutes of Limitations

	Inte	rest Laws	Statutes of Limitations		
States and Territories	Legal Rate	Rate Allowed by Contract	Judg- ments. Years	Notes, Years	Open Accounts Years
	Per cent	Per cent			
Alabama,	. 8	8	20	6*	2
Arkansas	. 6	10	10	5	3
Arizona	6	Any rate	6		3
alifornia	7	Any rate	5	5+	2
Colorado	7 8	Any rate	20	6	6
onnecticut	. 6	6	20	(e)	3 3 2 6 6
Delaware	. 6	6	IO	6	
District of Columbia	. 6	10	12		3 3 2
lorida	. 8	10	20	3 5 6 1	2
eorgia	7	8		611	1
daho	. 10	12	7 6	5	7
llinois			20	10	-
ndiana	6	7 8	20	10	5
owa	. 6	8	20(d)	10	5
Cansas	. 6	10	5	5	2
Zentucky	. 6	6	15	15	5(0
ouisiana		8	10	13	310
faine	5 6	Any rate	20	6(0)	688
laryland	. 6	6	12		
fassachusetts	6	Any rate	20	3	3
lichigan			6*	6	688
	. 6	7	-	6	6
Aiggigginni	6	10	10	6	_
Mississippi	. 6	8	7	10	3
Montana	. 8	Any rate	10	8	3 5 5
Vebraska			10(6)		5
levada	7 7 6	10	5##	5	4
low Usershire	7	Any rate		4	4
lew Hampshire	6	6	20	6	6
New Jersey	6		20	6	D
New York	6	12 6††	7,	6	688
orth Carolina	6	6	20(n)	0.**	055
orth Dakota			10	3*	688
	7 6	12 8	10	0	025
	. 6		15	15	0
klahoma		12	5(h)	2	3666
regon	6	10	10	611	0
ennsylvania	68	A	5(5)	6	0
hode Island		Any rate	20		6
outh Carolina			20	6	6
outh Dakota	7 6	12	10(t)	6	6
ennessee	6		10	-	
exas	. 8	10	1011	4	2
Jtah		Any rate	8		200
ermont	. 6	6	8	6	099
irginia	. 6	6	20	5*	27
Washington	. 6	12	6		3
West Virginia	. 6	Any rate	(0)	IO	5
Visconsin	. 6	10	20(2)	6	6
Wyoming	. 8	12	5(2)	5	8

<sup>\*</sup>Under seal, to years, † If made in State; if outside, 2 years. \$Unless a different rate is expressly stipulated. ||Under seal, 20 years. \*Store accounts; other accounts 3 years; accounts between merchants 5 years.

th New York has by a recent law legalized any rate of interest on call loans of \$5,000 or upward, on collateral security. \$\frac{1}{2}\text{Becomes dormant, but may be revived.}\$ SS Six years from last item. (a) Accounts between merchants 2 years. (b) In courts not of record 5 years. (c) Witnessed 20 years. (d) Twenty years in Courts of Record: in Justice's Court 10 years. (e) Negotiatiable notes 6 years. non-negotiable 15 years. (f) Cases to be a lien after that period. (h) On foreign judgments 1 year. (r) Is a lien on real estate for only 10 years. (l) And indefinitely by having execution issue every five years. (l) Ten years foreign, 20 years domestic. (n) Not of record 6 years. (o) Kept alive by execution every 2 years.

## "LIGHTNING METHOD" FOR CALCULATING INTEREST.

#### WHERE THE TIME IS FOR DAYS ONLY.

Rule.—To find the interest on any given sum for any number of days, multiply the principal by the number of days, then point off two places and divide as follows:

At 5 per cent divide by 72

At 6 per cent divide by 60

At 7 per cent divide by 52

At 8 per cent divide by 45

At 9 per cent divide by 40

At 10 per cent divide by 36

At 12 per cent divide by 30

Example: What is the interest on \$900.00 for 8 days at 6 per cent?

Solution:  $900 \times 8 \div 60 = $1.20$  interest.

#### BANKERS' METHOD OF CALCULATING INTEREST.

In banking nearly all the business is transacted on the basis of 30, 60, and 90 days.

Rule.—To find the interest on any amount at 60 days, remove the decimal point two places to the left, and you have the interest at 6 per cent.

Increase or diminish according as the time is increased or diminished.

For 90 days add ½ of itself; for 30 days divide by 2; for 15 days divide by 4; for 120 days multiply by 2.

Example: What is the interest on \$240 for 90 days at 6 per cent?

2.40 interest for 60 days.

1.20 interest for 1/2 of 60 days, or 30 days.

3.60 interest for 90 days.

### WHEN THE TIME CONSISTS OF YEARS, MONTHS, AND DAYS.

Rule.—Reduce years to months, adding the number of months, then place  $\frac{1}{3}$  of the number of days to the right of the months with a decimal point between.

Then remove the decimal point two places to the left in the principal, and divide by 2 and the result will equal the interest for one month at 6 per cent.

Multiply the interest for one month by the number of months, and the product is the interest at 6 per cent for the given time.

Then add 1-6 of itself for 7 per cent
Then add 1-3 of itself for 8 per cent
Then add 1-2 of itself for 9 per cent
Then add 2-3 of itself for 10 per cent
Subtract 1-6 of itself for 5 per cent
Subtract 1-3 of itself for 4 per cent

Example: Find the interest on \$150, at 9 per cent, for 1 year, 4 months, and 12 days:

Solution:  $\$1.50 \div 2 = .75$  interest for 1 month, 1 year, 4 months, and 12 days -16.4 months.

 $.75 \times 16.4 = $12.30$ , interest at 6 per cent 12.30 + 6.15 = \$18.45, interest at 9 per cent N. B.—The \$6.15 is one-half of \$12.30.

#### TIME AT WHICH MONEY DOUBLES AT INTEREST.

Data Dan Clant Cinania Interest	C	Tentamont
Rate Per Cent. Simple Interest.	Compound	interest.
250 years.	35 years	1 day.
2½40 years.	28 years	26 days.
333 years 4 months.	23 years	164 days.
3½28 years 208 days.	20 years	54 days.
425 years.	17 years	246 days.
4½22 years 81 days.	15 years	273 days.
520 years.	15 years	75 days.
616 years 8 months.		327 days.
714 years 104 days.		89 days.
812½ years.		2 days.
911 years 40 days.		16 days.
1010 years.	7 years	100 days.

#### HOW MONEY GROWS AT INTEREST.

If one dollar be invested and the interest added to the principal annually, at the rates named, we shall have the following result as the accumulation of one hundred years:

One dollar, 100 years at 1 per cent, \$2%;	
2 per cent	1/4
One dollar, 100 years at 3 per cent, \$1914;	
4 per cent 503	/2
One dollar, 100 years at 5 per cent 131	/2
One dollar, 100 years at 6 per cent 34	0
One dollar, 100 years at 7 per cent 86	8
One dollar, 100 years at 8 per cent 2,20	3
One dollar, 100 years at 9 per cent 5,51	3
One dollar, 100 years at 10 per cent 13,80	9
One dollar, 100 years at 12 per cent 84,67	5
One dollar, 100 years at 15 per cent 1,174,40	)5
One dollar, 100 years at 18 per cent 15,145,00	0
One dollar, 100 years at 24 per cent 2,551,799,40	)4

#### INTEREST LAWS OF THE UNITED STATES, SHOW-ING DAYS OF GRACE

The following data give the state, penalty of usury, legal rate, maximum rate permitted, and whether days of grace are allowed on sight, demand and time negotiable instruments.

Alabama.—All interest forfeited; legal and maximum rates, 8 per cent; grace on all negotiable papers.

Alaska.—Forfeiture of double interest 8 per cent; 12 per cent: grace on time paper only.

Arizona.—No penalty; 6 per cent; no limit; no grace.
Arkansas.—Principal and interest forfeited; 6 per cent; 10 per cent; days of grace on all negotiable papers.

California.—No penalty; 7 per cent; no limit; no grace.

Colorado.—No penalty; 8 per cent; no limit; no grace.

Connecticut.—All interest over 6 per cent forfeited; 6 per cent; 6 per cent; no grace.

Delaware.—Forfeiture of a sum equal to the money lent; 6 per cent; 6 per cent; no grace.

District of Columbia.—All interest forfeited; 6 per cent; 10 per cent; no grace.

Florida.—All interest forfeited; 8 per cent; 10 per cent; no grace.

Georgia.—All interest over 8 per cent forfeited; 7 per cent; 8 per cent; grace on time paper only.

Idaho.—Interest and 10 per cent per annum of principal forfeited; 7 per cent; 12 per cent; no grace.

Illinois.—All interest forfeited; 5 per cent; 7 per cent; no grace.

Indiana.—All interest over 8 per cent forfeited; 6 per cent; 8 per cent; grace on sight and time instruments.

Indian Territory.—Principal and interest forfeited; 6 per cent; 10 per cent; grace on all negotiable papers.

Iowa.—Interest and 10 per cent per annum of principal forfeited; 6 per cent; 8 per cent; no grace.

Kansas.—Forfeiture of all interest in excess of 10 per cent, and also an amount equal to the excess contracted for; 6 per cent; 10 per cent; grace on time paper only.

Kentucky.—All interest over 6 per cent forfeited; 6 per cent; 6 per cent; grace on demand paper only; grace on sight and time papers.

Louisiana.—All interest forfeited; 5 per cent; 8 per cent; grace on time paper only.

Maine.—No penalty; 6 per cent; no limit; grace on sight paper only.

Maryland.—All interest over 6 per cent forfeited; 6 per cent; 6 per cent; no grace.

Massachusetts.—No penalty; 6 per cent; no limit; grace on sight paper only.

Michigan.—All interest forfeited; 5 per cent; 7 per cent; grace on sight and time instruments.

Minnesota.—All interest forfeited; 6 per cent; 10 per cent; grace on sight paper only.

Mississippi.—All interest forfeited; 6 per cent; 10 per cent; grace on all negotiable instruments.

Missouri.—All interest forfeited; 6 per cent; 8 per cent; grace on time paper only.

Montana.—No penalty; 8 per cent; no limit; no grace.

Nebraska.—All interest forfeited; 7 per cent; 10 per cent; grace on sight and time paper.

Nevada.—No penalty; 7 per cent; no limit; grace on demand and time paper.

New Hampshire.—Forfeiture of three times the excess interest charged; 6 per cent; 6 per cent; grace on sight paper only.

New Jersey.—All interest forfeited; 6 per cent; 6 per cent; no grace.

New Mexico.—Forfeiture of double the interest and fine of not less than \$25 and not over \$100; 6 per cent; 12 per cent; grace on all negotiable instruments.

New York.—Principal and interest forfeited; 6 per cent; 6 per cent; no grace.

North Carolina,—All interest forfeited; 6 per cent; 6 per cent; grace on sight and time paper.

North Dakota.—All interest forfeited; 7 per cent; 12 per cent; no grace.

Ohio.—Forfeiture of excess of interest; 6 per cent; 8 per cent; no grace.

Oklahoma.—All interest forfeited; 6 per cent; 12 per cent; grace on all negotiable instruments.

Oreyon.—Principal and interest forfeited; 6 per cent; 10 per cent; no grace.

Pennsylvania.—Forfeiture of excess of interest; 6 per cent; 6 per cent; no grace.

Rhode Island.—No penalty; 6 per cent; no limit; grace on sight paper.

South Carolina.—All interest forfeited; 7 per cent; 8 per cent; grace on sight and time instruments.

South Dakota.—All interest forfeited; 7 per cent; 12 per cent; grace on all negotiable instruments.

Tennessee.—Forfeiture of excess of interest, and fine; 6 per cent; 6 per cent; no grace.

Texas.—All interest forfeited; 6 per cent; 10 per cent; grace on sight and time paper.

Utah.—No penalty; 8 per cent; no limit; no grace. Vermont.—Forfeiture of excess of interest; 6 per

Vermont.—Forfeiture of excess of interest; 6 per cent; 6 per cent; no grace.

Virginia.—All interest forfeited; 6 per cent; 6 per cent; no grace.

Washington.—Forfeiture of excess of interest; 6 per cent; 12 per cent; no grace.

West Virginia.—All interest over 6 per cent forfeited; no grace.

Wisconsin.—All interest forfeited; 6 per cent; 10 per cent; no grace.

Wyoming.—All interest forfeited; 8 per cent; 12 per cent; grace on all negotiable instruments.

#### DISCOUNT.

Discount is an allowance made for the payment of money before it becomes due, and is either the interest on the debt for the time, which is called true discount, or upon such a sum as will amount to the face of the debt when due, which is called bank discount. It will be observed that by true discount the interest is considered due when the debt is due, but by bank or business discount it is considered due when the note is discounted.

#### ESTIMATING PROFITS.

In order to ascertain the profit received, it will be necessary to find the actual cost of the merchandise and then deduct the cost from the selling price, and the remainder will be the profit. There are various ways of estimating profits, and the following may be of assistance:

Rule.—Divide the gross sales by 1. (one dollar), plus the rate per cent of profit (as agreed upon), and the quotient will be present value or net cost of goods sold, then deduct net cost of goods sold from gross sales, and the remainder will be the profit.

This result may also be obtained by the use of aliquot percentages. One quantity or number is said to be an aliquot part of another when it is contained in or will divide the other an exact number of times without any remainder. An aliquot number or part is one that is not contained in or will not divide the other without a remainder. Rule for ascertaining the divisor of aliquot parts of 100:

Rule.—Add the percentages named to 100, and then divide the sum thus obtained by the percentage given, and the dividend will be the number by which to divide the amount of sales to ascertain the profit.

Rule for ascertaining profits by aliquot percentages: Rule.—Divide the total amount of sales by the divisor obtained, by the rule given above, and the quotient will be the profits on the sales; then to ascertain net cost subtract the profits from amount of sales, and the remainder will be net cost or present value.

The following table of aliquot parts of 100 has been obtained by following the rule given above, and will

undoubtedly prove of assistance:

#### TABLE OF ALIQUOT PERCENTAGES OF 100.

1.	is	the	1-100th,	divide	by	101
1.25	is	the	1-80th,	divide	by	81
1.562	5 is	the	1-64th,	divide	by	65
2.	is	the	1-50th,	divide	by	51
2.083	3 is	the	1-48th,	divide	by	49
2.50	is	the	1-40th,	divide	by	41
3.125	is	the	1-32nd,	divide	by	33
4.	is	the	1-25th,	divide	by	
5.	is	the	1-20th,	divide	by	21
6.25	is	the	1-16th,	divide	by	17
8.333	is	the	1-12th,	divide	by	13
10.	is	the	1-10th,	divide	by	11
12.50	is	the	1-8th,	divide		9
16.660	is is	the	1-6th,	divide	by	
20.	is	the	1-5th	divide	by	
25.	is	the	1-4th,	divide	by	
33.33	3 is	the	1-3rd,	divide	by	4
50.	is	the	1-2nd,	divide	by	3

The aliquant process is similar to and is in reality nothing more or less than the old rule for ascertaining present value:

Rule.—Divide the amount of sales by 1. (one dollar), plus the rate per cent expressed decimally, and the quutient will be the present value or cost of the merchan-

dise; then to ascertain profits, it will be necessary to subtract the cost from the amount of sales, and the remainder will be the profits.

mainder will be the profits.
ALIQUOT PARTS OF ONE DOLLAR.
50 cents equal
331/3 cents equal
25 cents equal
20 cents equal
16% cents equal
12½ cents equal
10 cents equal 1-10 of one dollar
81/3 cents equal 1-12 of one dollar
6½ cents equal 1-16 of one dollar
5 cents equal 1-20 of one dollar
ALIQUOT PARTS OF A TON.
10 cwt. equal
5 cwt. equal
4 cwt. equal
2 cwt., 2 qrs., equal \% of a ton
2 cwt. equal 1-10 of a ton
1 cwt. equal 1-20 of a ton
ALIQUOT PARTS OF A POUND AVOIRDUPOIS.
8 ounces equal
4 ounces equal
2 ounces equal
1 ounce equals 1-16 of a pound
ALIQUOT PARTS OF TIME.
6 months equal
4 months equal
3 months equal
2 months equal
1½ months equal
1½ months equal 1-9 of a year
1 month equals 1-12 of a year
15 days equal
10 days equal
6 days equal
3 days equal 1-10 of a month

#### COINS OF THE UNITED STATES

The coins at present in circulation in the United States may be classified as gold coins, silver dollars, subsidiary silver and minor coins. The gold coins are the double-eagle, the eagle, the half-eagle, and the quartereagle, weighing respectively 516, 258, 129, and 641/2 grains of standard gold; that is, of a mixture consisting of nine parts of pure gold to one part of copper. The pure gold in the eagle weighs, therefore, 232 2-10 grains. These coins are legal tender in unlimited quantities for twenty, ten, five and two and one-half dollars respectively, and they are minted free of charge for whoever brings metal to the mint of the requisite degree of fineness. For nearly half a century after the establishment of the first United States mint, in 1793. the eagle contained 270 grains of standard gold .916 2-3 fine, and the alloy consisted of silver and copper mixed. The change to our present system was authorized by the acts of June 28, 1834, and January 18, 1837. For a time also a seigniorage charge of one-fifth of one per cent was imposed, but this regulation was repealed by an act passed January 14, 1875.

Our subsidiary silver coins are the half-dollar, quarter-dollar and dime, weighing respectively 192.9, 96.45. 38.58 grains of standard, or 173.61, 86.805, 34.725 grains of pure silver. The amount of the issue was limited by the acts of July 14, 1875, and April 17, 1876, to about forty-two million dollars, the sum needed to retire the so-called fractional paper currency of that time. This limit has been increased from time to time by special legislation. These coins are legal tender to the amount of ten dollars only, and are reedemable at the treasury or any subtreasury of the United States in sums or multiples of twenty dollars. They are issued in like quantities for lawful money to any person desiring them, and delivered by the government free of charge. At one time half-dimes and three-cent pieces of silver were issued from the mint, but their coinage was ordered discontinued by the mint act of 1873.

The minor coins of the United States are a fivecent piece, weighing 77.16 grains, and made of a mix-

ture of copper and nickel in the proportion of 75 parts of the former to 25 parts of the latter; a onecent coin weighing 48 grains, and consisting of a mixture of copper, tin, and zinc in the proportion of 95 parts of the former to 5 parts of the two latter materials. From 1873 to 1890 a three-cent coin of nickel and copper was also in circulation. These coins are legal tender to the amount of twenty-five cents only, are redeemable at any subtreasury in sums of twenty dollars or more, and are delivered free of charge in similar quantities to any person who is willing to pay lawful money for them. Their supply is regulated by the director of the mint, under the supervision of the Secretary of the Treasury, the purpose being to keep in circulation precisely the quantity which is actually needed for the commerce of the country.

#### RAPID CALCULATION

"LIGHTNING METHOD" OF MULTIPLICATION AND DIVISION.

To multiply by 125, divide by 8, and call it thousands, because 125 is \% of a thousand.

To multiply by 121/2, divide by 8; call it hundreds.

To multiply by 11/4, divide by 8; call it tens.

To multiply by  $62\frac{1}{2}$ , divide by 16, and call it thousands.

To multiply by 6¼, divide by 16, and call it hundreds. To multiply by 31¼, divide by 32, and call it thou-

sands.

To multiply by 3331/2, divide by 3, and call it thousands.

To multiply by 331/3, divide by 3, and call it hundreds.

To multiply by 3½, divide by 3 and call it tens.
'to multiply by 50, divide by 2, and call it hungreds.

To multiply by 66%, divide by 15, and call it thou-

sands.

To multiply by 833\%, divide by 15, and call it ten

thousands, by annexing four ciphers.

To multiply by 83%, divide by 12, and call it thou-

sands.

To multiply by 81/3, divide by 12, and call it hun-

dreds, because  $8\frac{1}{2}$  is 1-12 of a hundred. The reason is similar in each case.

To multiply by 166%, divide by 6, and call it thousands.

To multiply by 16%, divide by 6, and call it hundreds. To multiply by 1%, divide by 6, and call it tens.

To multiply by 37½, take % of the number, and call it hundreds; 87½, % of the number, and call it hundreds, etc.

We simply reverse these methods to divide. To divide by 10,100, 1,000, etc., we remove the point one, two and three places to the left.

To divide by 25, remove the decimal point two places to the left, and multiply by 4.

Removing the point two places divides by one hundred; hence the quotient is four times too small; hence we remove the point two places, and multiply by 4.

To divide by 2½, remove the point one place to the left, and multiply by 4.

To divide by 125, remove the point three places to the left, and multiply by 8.

To divide by 12½, remove the point two places to the left, and multiply by 8.

To divide by 1¼, remove the point one point to the left, and multiply by 8. There are about 1¼ cubic feet in one bushel. Hence dividing the number of cubic feet by 1¼ gives the number of bushels nearly.

To divide by 1331/2, remove the point three places to the left, then multiply by 3 and divide by 4.

To divide by 8\%, remove the point two places to the left, and multiply by 12.

#### CONTRACTIONS IN MULTIPLICATION.

To multiply by 25 add 2 ciphers and divide by 4.

To multiply by 331/3 add 2 ciphers and divide by 3.

To multiply by 125 add 3 ciphers and divide by 8.

To multiply by 175 add 2 ciphers and divide by 5, and multiply result by 7.

#### METRIC SYSTEM

The Metric System has been adopted by Mexico, Brazil, Chile, Peru, etc., and except Russia and Great Britain, where it is permissive, by all European nations. Various names of the preceding systems are, however, frequently used: In Germany, ½ kilogram = 1 pound; in Switzerland, 3-10 of a metre = 1 foot, etc. If the first letters of the prefixes deka, hecto, kilo, myria, from the Greek, and deci, centi, mili, from the Latin, are used in preference to our plain English, 10, 100, etc., it is best to employ capital letters for the multiples and small letters for the subdivisions, to avoid ambiguities in abbreviations: 1 dekametre or 10 metres = 1 Dm.; 1 decimetre or 1-10 of a metre = 1 dm.

The Metre, unit of length, is nearly the ten-millionth part of a quadrant of a meridian, of the distance between equator and pole. The International Standard Metre is, practically, nothing else but a length defined by the distance between two lines on a platinum-iridium bar at 0° Centigrade, deposited at the International Bureau of Weights and Measures, Paris, France.

The Litre, unit of capacity, is derived from the weight of one kilogram pure water at greatest density, a cube whose edge is one-tenth of a metre and, therefore, the one-thousandth part of a metric ton.

The Gram, unit of weight, is a cube of pure water at greatest density, whose edge is one-hundredth of a metre, and, therefore, the one-thousandth part of a kilogram, and the one-millionth part of a metric ton.

One silver dollar weighs 25 grams, 1 dime = 2½ grams, 1 five-cent nickel = 5 grams.

The Metric System was legalized in the United States on July 28, 1866, when Congress enacted as follows:

"The tables in the schedule hereto annexed shall be recognized in the construction of contracts, and in all legal proceedings, as establishin, in terms of the weights and measures now in use in the United States, the equivalents of the weights and measures expressed therein in terms of the metric system, and the tables may lawfully be used for computing, determining, and

expressing in customary weights and measures the weights and measures of the metric system."

The following are tables of equivalents:

1 meter = 39.37 inches.	1 yd. = .9144 m.
1 kilometer = .62137 mile.	1 rod = 5.029 m.
1 sq. meter $= 1.196$ sq. yds.	1  mile = 1.6093  Km.
1 cu. meter = 1.308 cu. yds.	1 sq. yd. = .8361 sq. m.
1 Are = 119.6 sq. yds.	1 acre = 40.47 ares.
1 hectar = 2.471 acres.	1 sq. mile $= 259$ Ha.
1 liter = 1.0567 quarts.	1 cubic foot = 28.317 liters.
1 hektoliter = 2.8375 bu.	1 cubic yard = .7645 cu. m.
1 ster = .2759 cord.	1 liquid quart = .9465 liter.
1 gram - 15 429 grains	1 hughel - 25242 H1

1 gram = 15.432 grains, Troy.

1 kilogram = 2.2046 fb. Avoir.

nations in common use.

1 bushel = .35243 Hl. 1 lb. Troy = .37324 Kg. 1 lb. Avoir, = .4536 Kg.

Avoir.

The first column of equivalents gives the approxi-

#### MARKING GOODS

mate legalized values, and contains most of the denomi-

## RULE FOR MARKING GOODS TO MAKE SPECIFIC PROFITS.

In marking goods bought by the dozen to make a specific per cent of profit, the following will be of assistance:

To make 12½ per cent, remove the decimal point and add one-sixteenth.

To make 16% per cent, remove the decimal point and add one-thirty-sixth.

To make 18% per cent, remove the decimal point and add one-ninety-sixth.

To make 20 per cent, remove the decimal point one place to the left.

To make 25 per cent, remove the decimal point and add one-twenty-fourth.

To make 26 per cent, remove the decimal point and add one-twenty-sixth.

To make 28 per cent, remove the decimal point and add one-fifteenth.

To make 30 per cent, remove the decimal point and add one-twelfth.

To make 32 per cent, remove the decimal point and add one-tenth.

To make  $33\frac{1}{3}$  per cent, remove the decimal point and add one-ninth.

To make 35 per cent, remove the decimal point and add one-eighth.

To make  $37\frac{1}{2}$  per cent, remove the decimal point and add one-seventh.

To make 40 per cent, remove the decimal point and add one-sixth.

To make 44 per cent, remove the decimal point and add one-fifth.

To make 50 per cent, remove the decimal point and add one-fourth.

To make 60 per cent, remove the decimal point and add one-third.

To make 80 per cent, remove the decimal point and add one-half.

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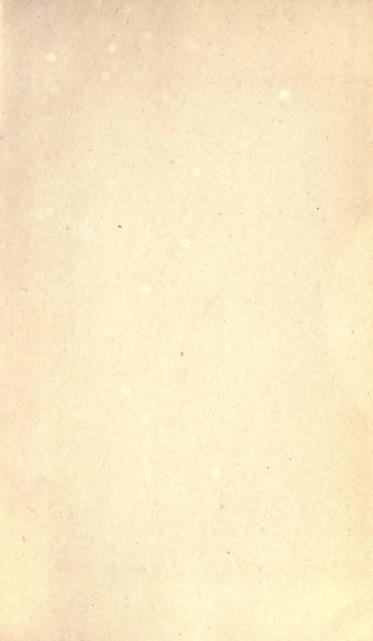
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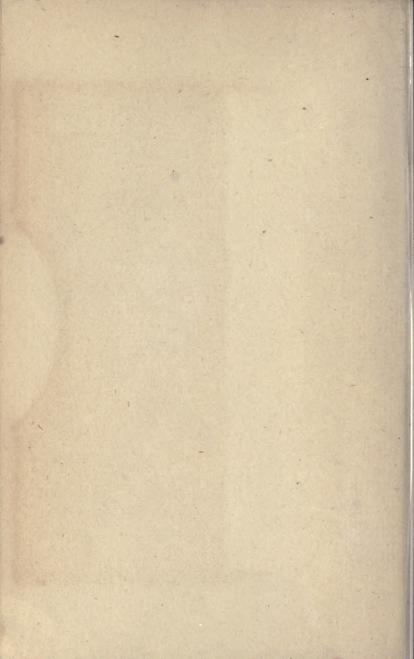
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